

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL WELL ☒

GAS WELL ☐

OTHER

SINGLE ZONE ☐

MULTIPLE ZONE ☐

2. NAME OF OPERATOR

Phillips Oil Company

3. ADDRESS OF OPERATOR

P. O. Box 2920 Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

2105' FSL, 1876' FEL Sec7-T41S-R24E

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approximately 5 miles south of Montezuma Creek, Utah

16. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest orig. unit line, if any)

2105' from Ratherford

Unit, Lease Line

16. NO. OF ACRES IN LEASE

1680

17. NO. OF ACRES ASSIGNED TO THIS WELL

40 Acres

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

1195'

19. PROPOSED DEPTH

5800'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5091' ungraded ground

22. APPROX. DATE WORK WILL START*

3rd Quarter 1985

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48#	100'	150 sx (Circ to Surface)
12-1/4"	9-5/8"	36#	1600'	600 sx (Circ to Surface)
8-3/4"	7"	23# & 26#	5900'	1000 sx est. (T.O.C. approx 2000)

Approval is requested to drill Ratherford Unit #7-33, a Desert Creek Development oil well, to increase the ultimate recovery from the Ratherford Unit.

, BOP equipment will be operated daily and tested weekly.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 7/9/85

BY: John R. Bays

WELL SPACING: A-3 Unit Well

RECEIVED

JUN 17 1985

DIVISION OF OIL
GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

[Signature]
A. E. Stuart

TITLE

Area Manager

DATE

June 12, 1985

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

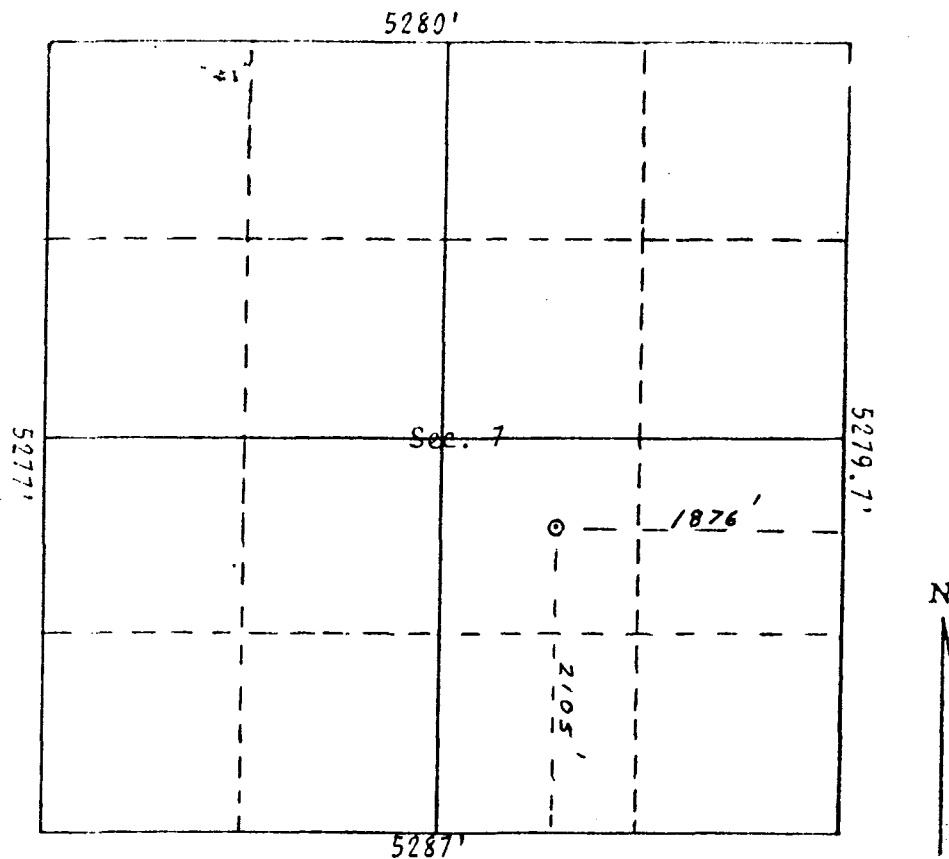
TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

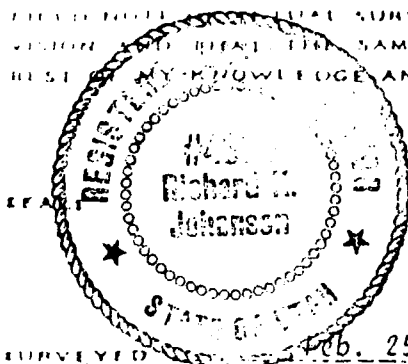
*See Instructions On Reverse Side

COMPANY Phillips Petroleum Co.
Ratherford Unit
 LEASE _____ WELL NO. 7-33
 SEC. 7, T. 41 S., R. 24 E.
 County: San Juan State: Utah
 LOCATION 2105' FSL & 1876' FEL
 ELEVATION 5019



SCALE: 4 INCHES EQUALS 1 MILE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
 FIELD NOTES, RECORDS AND SURVEYS MADE BY ME UNDER MY SUPER-
 VISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
 BEST OF MY KNOWLEDGE AND BELIEF.



R. Johnson
 Registered Land Surveyor

SURVEYED Feb. 25 1985

RATHERFORD UNIT #7-33

Supplement to Form 9-331C "Application for Permit to Drill, Deepen, or Plug Back."

DRILLING PROGRAM

1. Surface formation is the Dune Sand, which consists of loose windblown sand, age-recent.

Estimated tops of geologic markers:

Shinarump	2635'
DeChelly	2954'
Hermosa	4845'
Desert Creek Zone I	5824'

2. Brackish water-bearing sands are expected in the Navajo, Wingate, and DeChelly formations. Oil is expected to be encountered in the Ismay and Desert Creek formations. The top of cement will be approximately at 2000'.
3. Blow-out preventers will be 10" Series 900 equipment to be tested initially to 3000 psi. They will be inspected and operated daily and pressure tested weekly to 1500 psi. Weekly pressure tests will be supervised by representatives of Phillips Oil Company and the drilling contractor. Tests will be recorded on the daily drilling report which will remain on the rig floor during drilling operations. BOP tests will be conducted in accordance with Phillips standards, copy attached.
4. a. Proposed Casing Program:
 1. Conductor casing:

100'	13-3/8"	48#/ft	H-40	ST&C	new
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 2. Surface casing:

1600'	9-5/8"	36#/ft	K-55	ST&C	new
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Surface casing will be tested to 1500# before drilling out.
 3. Production casing:

5700'	7"	23# & 26#/ft	K-55	ST&C	new
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Production casing will be tested to 3000#.

b. Proposed Cementing Program:

1. Conductor Casing:

Conductor casing will be cemented with 150 sks Class B cement. Cement will be brought to surface.

2. Surface Casing:

Surface casing will be cemented with 300 sks "light" cement followed with 300 sks Class B cement. Cement will be brought to surface.

3. Production casing:

Production casing will be cemented with "light" cement followed with Class B cement. For cement volume, caliper will be used with 15% excess. The top of the cement should be around 2000'. If other zones with hydrocarbon potential are encountered, they will be covered with cement.

c. Auxiliary Equipment:

Auxiliary equipment will include upper and lower kelly cocks, a drill string safety valve, and a pit level indicator.

5. Drilling Fluid:

Drilling fluid will be a fresh water based mud system. Spud mud is gel and water with a weight of 8.4-8.8 ppg. From the surface to approximately 1600', gel and water will be used. Mud weight may be up to 9 ppg to control water flow from the Wingate formation. A slurry of 8.6-9.5 ppg, 32-38 viscosity, and less than 15cc/30 min. water loss will be used from 1600'-5200'. Mud weight may be increased to 10.4 ppg if a water flow is encountered. From 5200' to total depth mud properties will be 10.5-12.5 ppg, 40-45 viscosity, and below 10 cc water loss.

Adequate quantities of mud materials will be stored at the location to equal the volume of the rigs complete circulating system. A flow sensor will be used.

6. Testing, logging, and coring:

The logging program will consist of DLL, MSFL, GR, SP, and Caliper from T. D. to the surface casing. A FDC/CNL and a Micro-proximity log will be run from T. D. to 4300'. A temperature or cement bond log will be run to determine cement top. No coring or drill stem tests are planned.

7. Downhole Conditions:

Drilling in the area indicates no abnormal pressures, temperatures, or hydrogen sulfide gas.

8. Phillips anticipates starting operations in the third quarter of 1985. Drilling operations are estimated to take fifteen days per well.

CULTURAL RESOURCE REPORT

Division of Conservation Archaeology has prepared a cultural resource inventory of the subject wellsite. A copy of the report has been sent to the BLM Farmington office. Pertinent information regarding the subject well is attached.

SURFACE USE PROGRAM

1. Existing Roads

- a. Access to existing lease roads is approximately 5 miles south of Montezuma Creek, Utah.
- b. The existing roads will be maintained in the same or better condition.
- c. Refer to the attached access road map for road information.

2. Access Roads

Planned upgrading of existing access roads is shown on the attached map.

3. Location of Existing Wells.

Locations of existing wells are shown on the attached maps.

4. Production from the proposed well will be piped to Ratherford Unit Tank Battery #1, located in the SW SW Sec. 16-T41S-R24E San Juan County, Utah. The flowline will be visible from the existing lease roads. A plat of the proposed leadline is attached.

5. Water Supply

- a. The source of water to drill the subject well is from the River Booster, NE/4 Sec. 5., or from the Water Injection Plant, SE/4 Sec. 17 in T41S-R24E, San Juan County, Utah.
- b. The drilling water will be trucked from the water source to the subject well.
- c. A water supply well will not be drilled on the lease.

6. Construction Materials

- a. Only native soils will be used for construction of wellsite and the access road.
- b. Pit run rock will be used on the wellsite and access road when needed.
- c. The above materials are owned by the Navajo Tribe.

7. Waste Disposal

- a. Cuttings: Cuttings will be contained in a fenced reserve pit until dry enough to cover. Upon abandonment, the reserve pit area will be backfilled, shaped to natural topography, and seeded.
- b. Drilling Fluid: Drilling fluid will be contained in a fenced reserve pit until dry enough to cover. Upon abandonment, the reserve pit area will be backfilled, shaped to natural topography, and seeded.
- c. Garbage/Trash: All garbage and trash will be put in the burn pit. The burn pit will be fenced on four sides. After the burn pit is no longer in use, the trash and garbage will be covered with a minimum of 4 feet of fill.
- d. Salt: No salts are anticipated on this well. If salt is present, it will be disposed of in the reserve pit.
- e. Chemicals: Chemicals will be disposed of in the reserve pit.
- f. Sewage: Dry chemical toilets will be used.

8. Ancillary Facilities

No ancillary facilities are required.

9. Well Site Layout.

- a. Refer to attached Rig Layout plat
- b. There are no plans to line the reserve pit unless porous soil materials are encountered during construction.

10. Surface Reclamation Plans

- a. Construction Program: The top 8 inches of surface material will be removed and stockpiled. A cross section of the drill site showing cuts and fills is attached.
- b. Well Abandonment: All disturbed areas will be shaped to the natural topography and seeded in accordance with BLM requirements.

- c. Producing Well: Those areas not needed for production purposes will be recontoured to the surrounding topography. Seeding will be in accordance with BLM requirements.
- d. Pipelines and flowlines: Flowlines will be above ground and follow or be visible from existing roads.
- e. Rehabilitation will begin as soon as possible, considering weather and other factors, and proceed per recommendation of the BLM. The reserve pit will be reclaimed once it dries.

11. Surface Ownership: The wellsite location, access road and leadline are on the Navajo Indian Reservation. No dwellings are in the proposed drilling area.

12. Other information:

The reserve pit will be lined if needed to contain drilling fluids. The reserve pit will be fenced on three sides during drilling and on the fourth side after the rig is moved out.


13. Operator's Representative and Certification.

a. Field Representative:

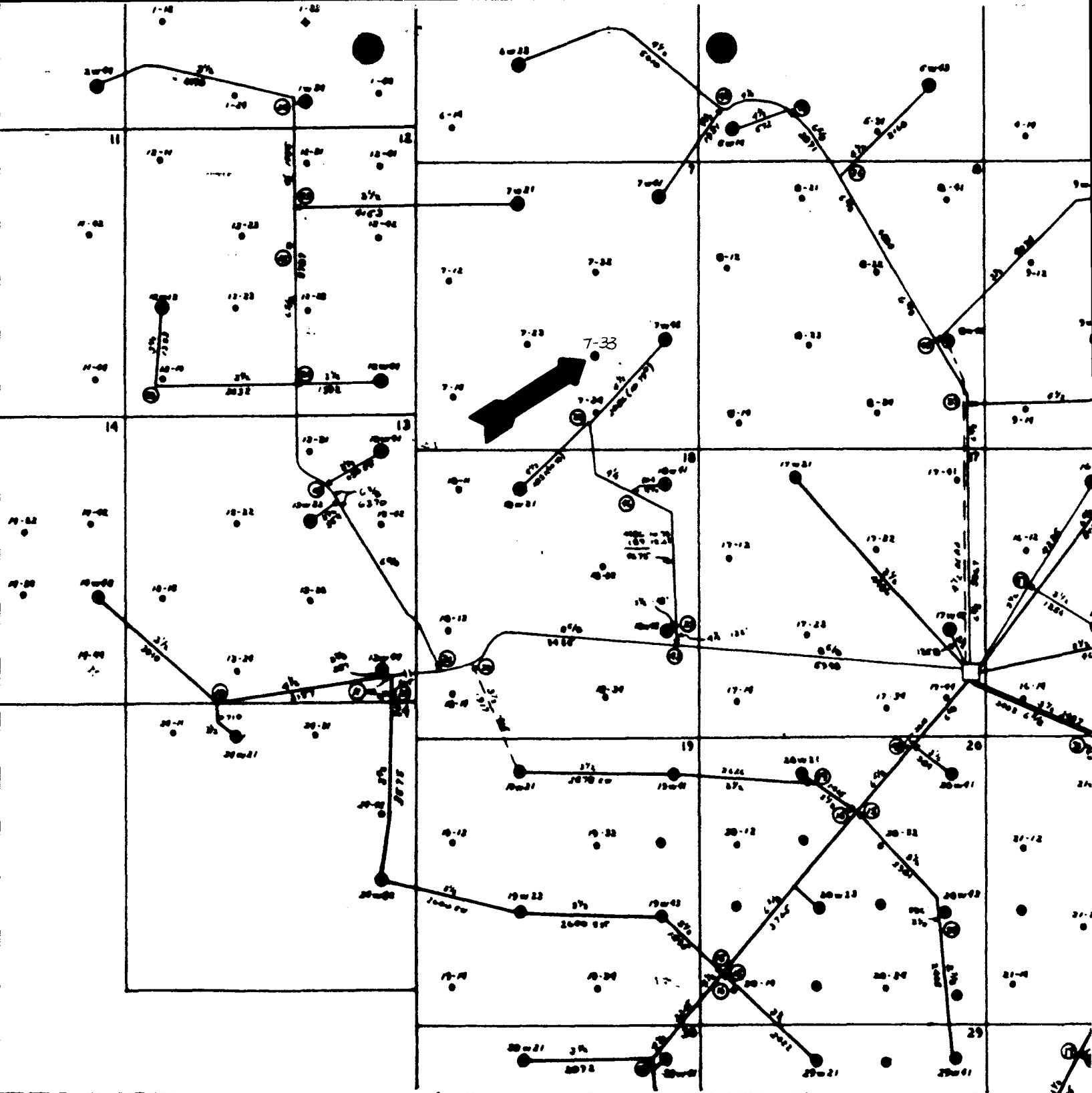
A. E. Stuart
P. O. Box 2920
Casper, Wyoming 82602
307-237-3791



I hereby certify that I or persons under my direct supervision have inspected the proposed drill site and access route; and I am familiar with the conditions which currently exist; that the statements made in this plan are to the best of my knowledge true and correct; and that the work associated with operations proposed herein will be performed by Phillips Oil Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S.C. 1001 for the filing of a false statement.

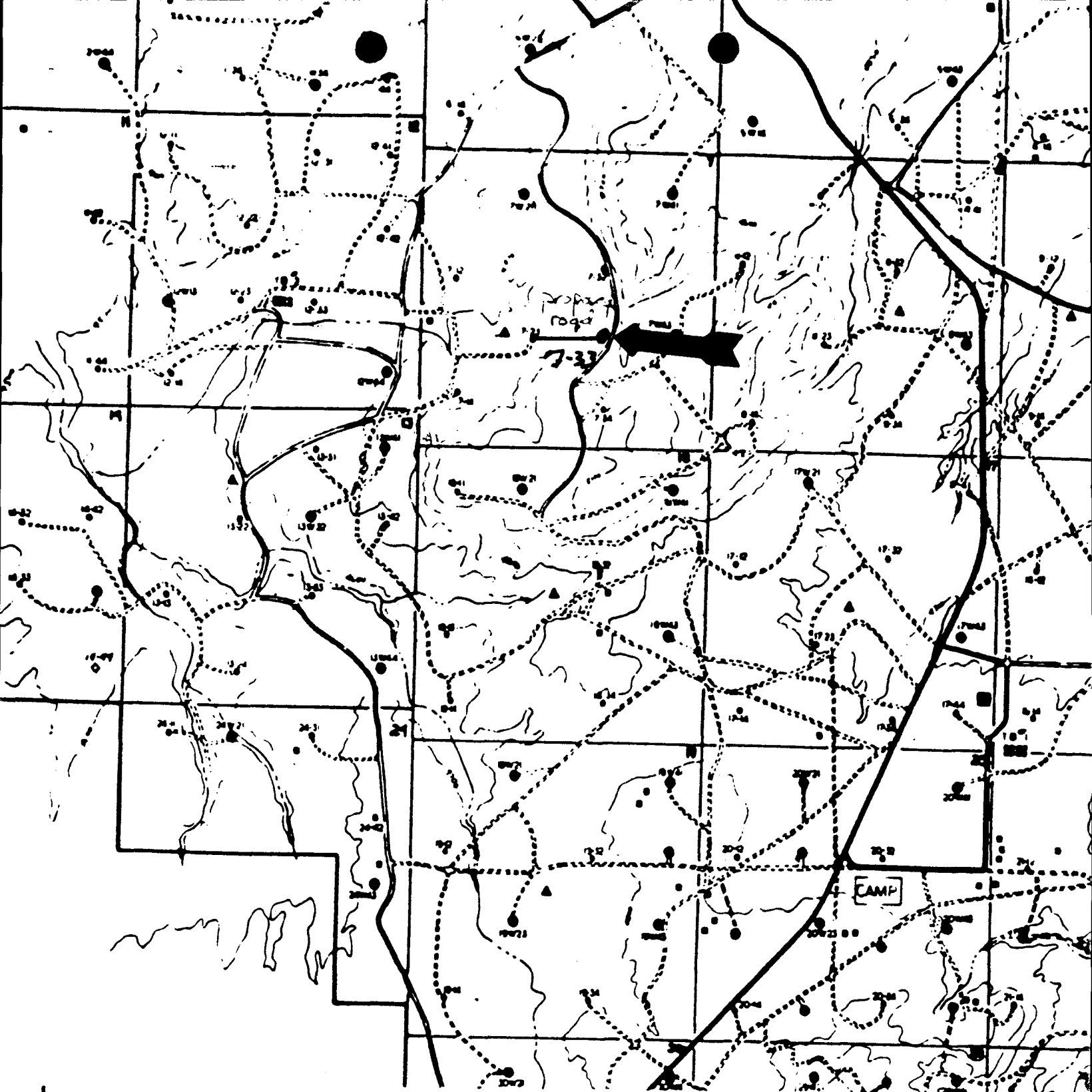
Date June 12, 1985




A. E. Stuart
Area Manager

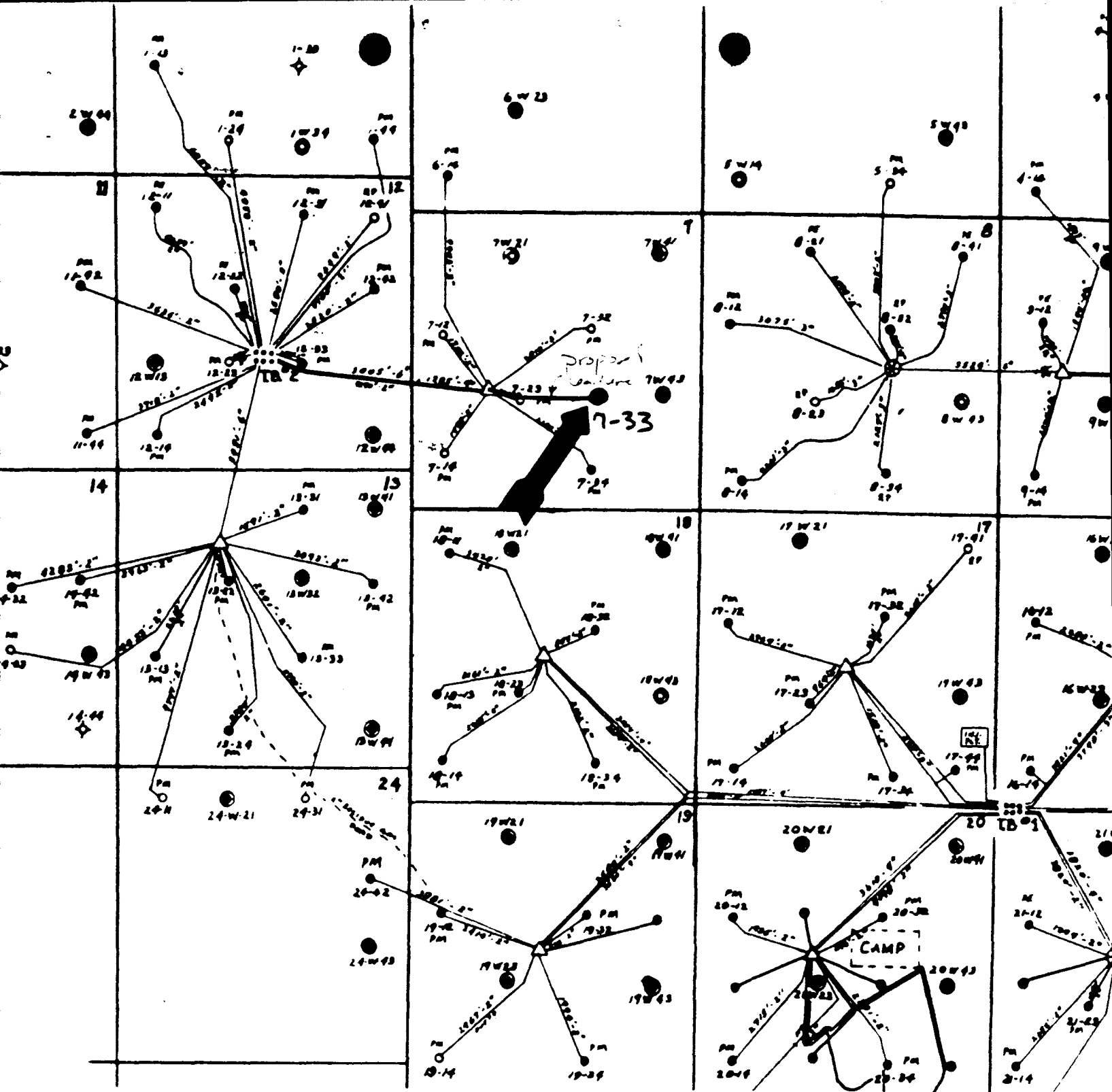
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FOR CONST				DWG NO.	
DRAWN 3-30-84 BJM				SH	10
CHECKED					
APP'D					



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DRAWN 1-17-35 EJM	RATHERFORD UNIT WELL 7-33 PROPOSED ROAD PLAT NW SE SEC 7 T41S-R24E SAN JUAN CO., UTAH				
CHECKED					
APP'D					



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FOR BIDS	<div style="display: flex; justify-content: space-between; align-items: center;"> <div> </div> <div style="text-align: center;"> PHILLIPS PETROLEUM COMPANY BARTLESVILLE, OKLAHOMA </div> <div> </div> </div>			JA NO	FILE CODE
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CHECKED				SH NO	
APPD					

Revised Rtt
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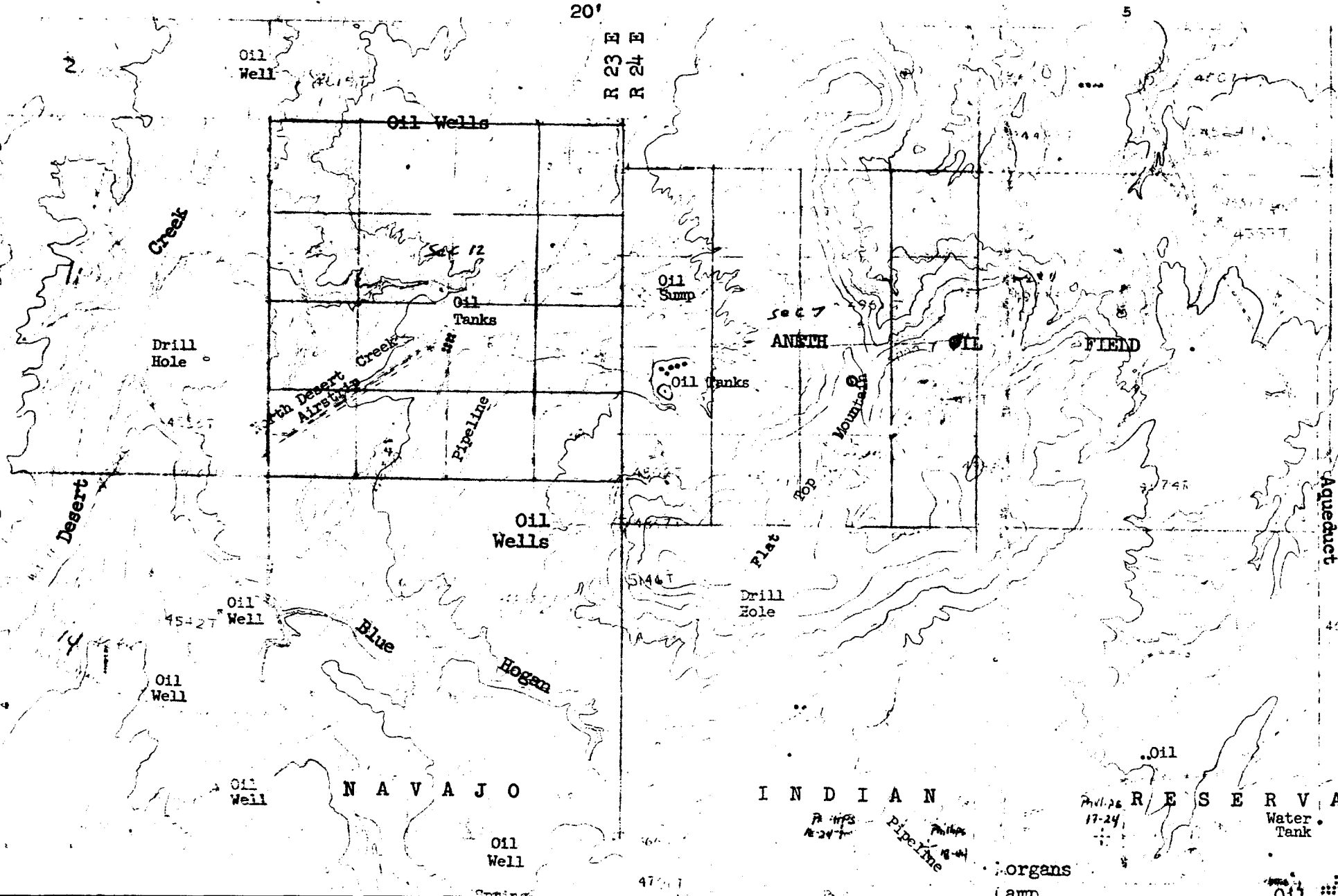
7-33

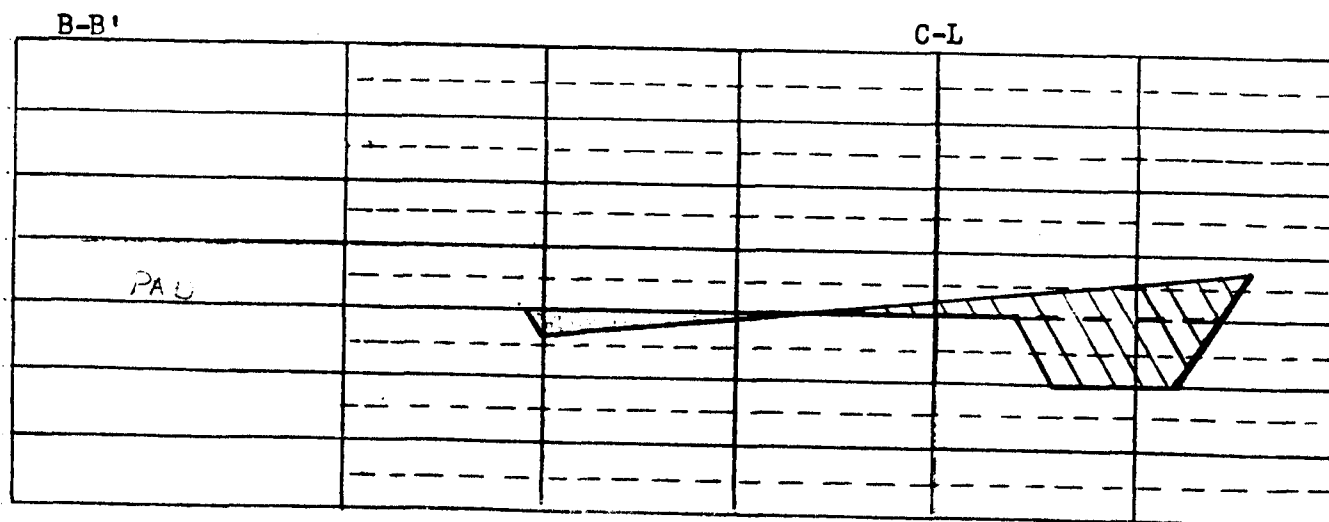
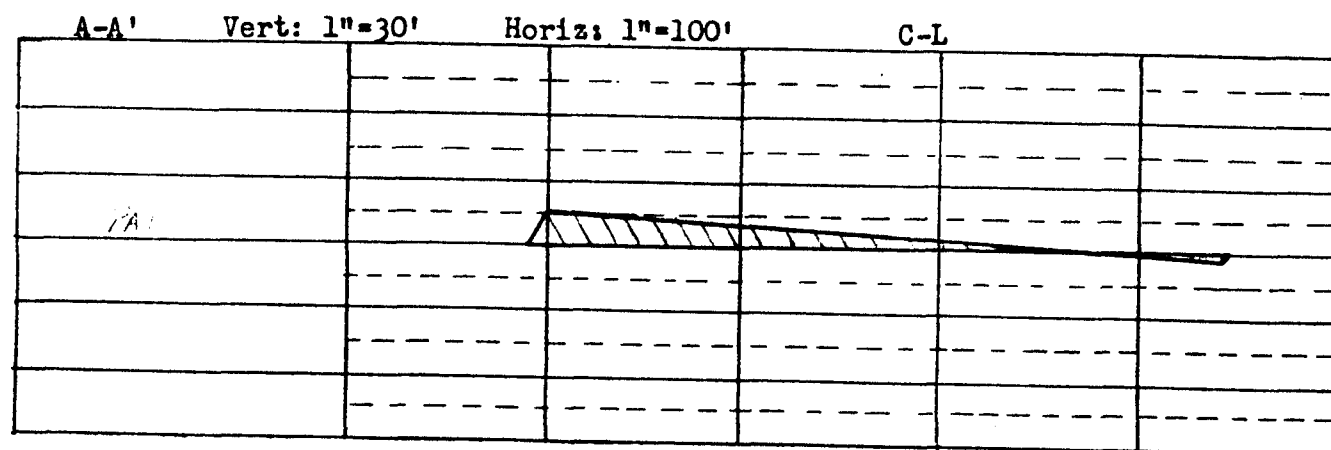
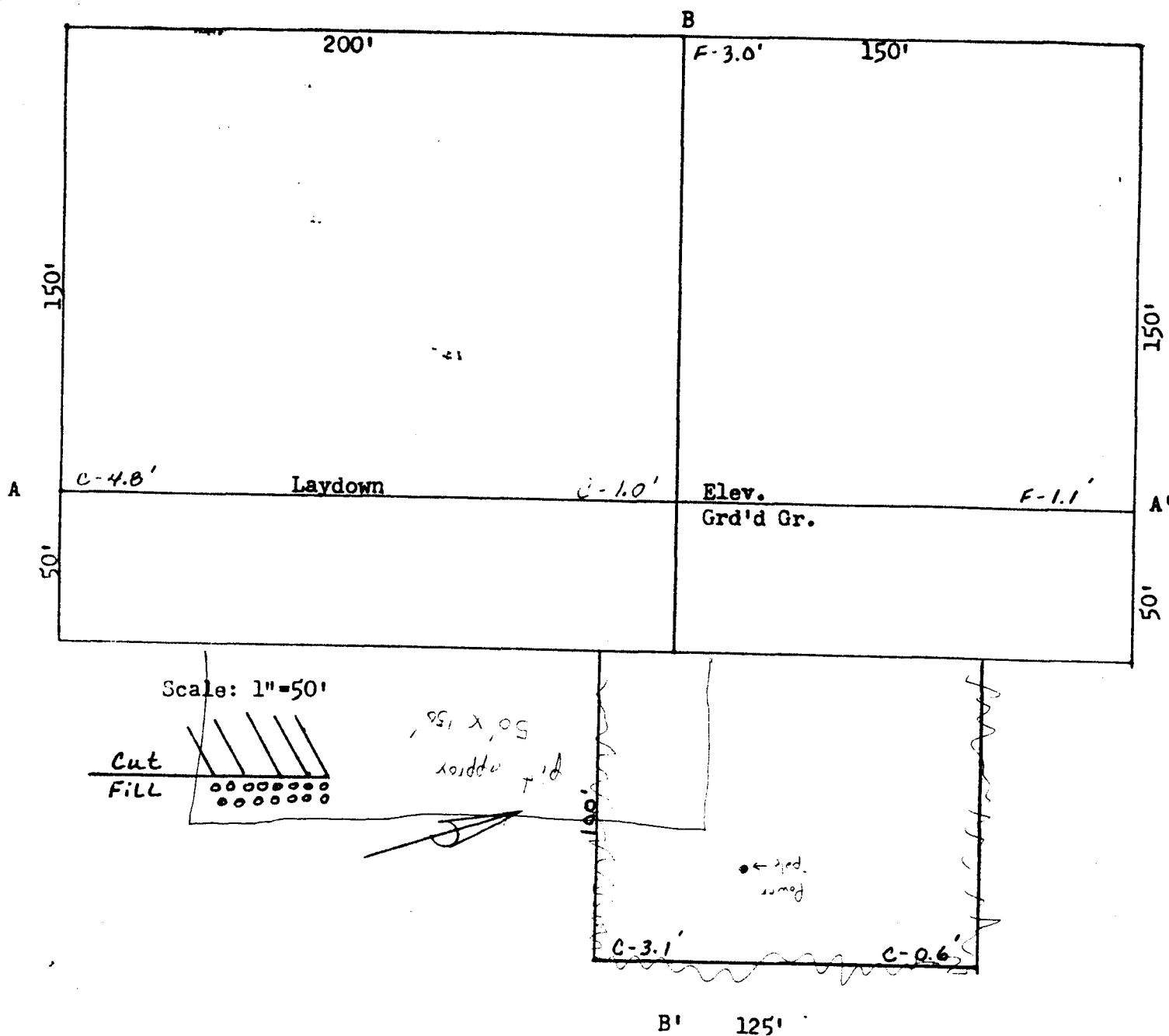
STATES
THE INTERIOR
L SURVEY

20'

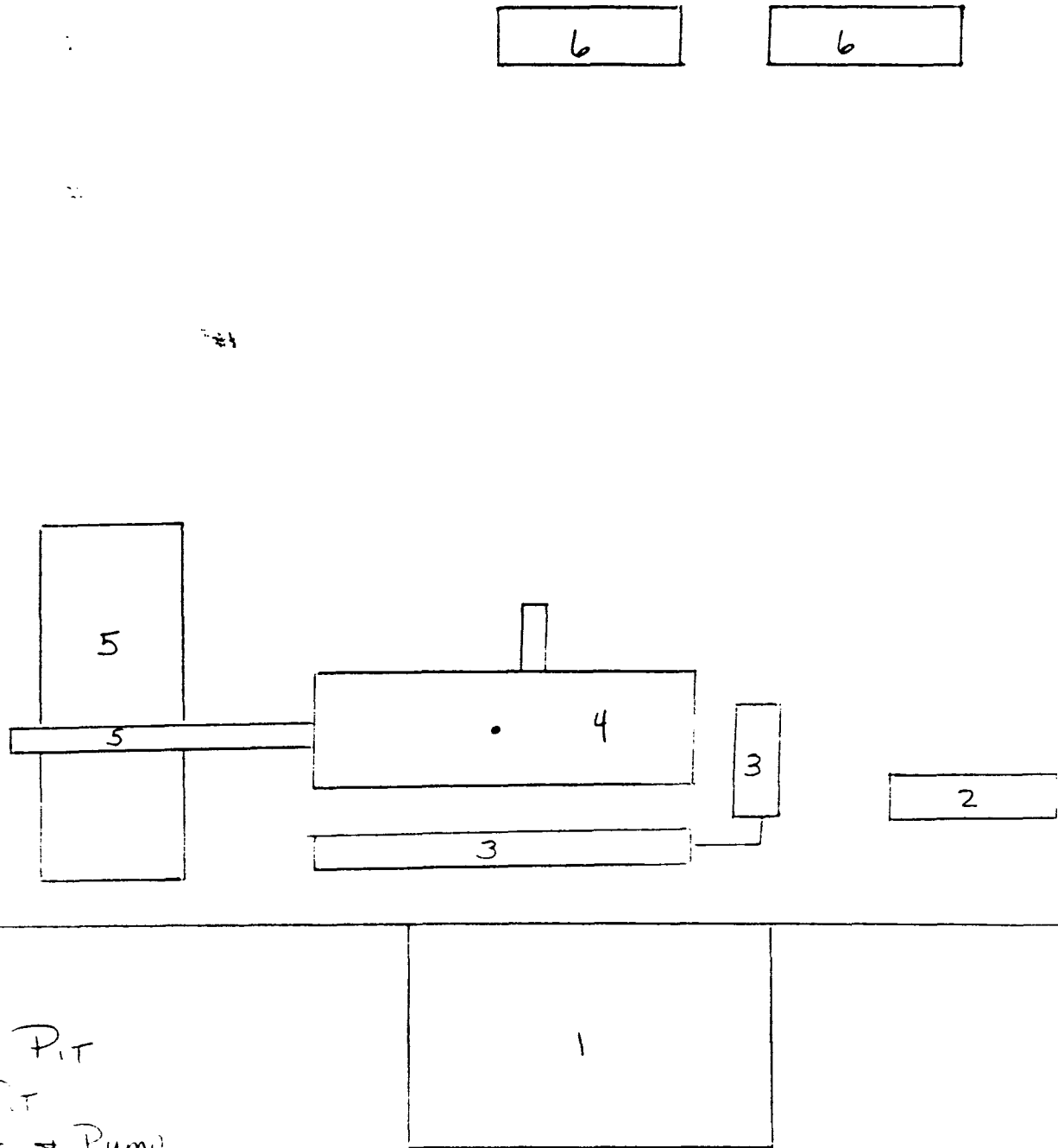
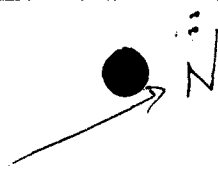
R 23 E
R 24 E

5





Rutherford Unit # 7-33
NWSE Sec 7-T41S-R24E



- 1 RESERVE PIT
- 2 TRASH PIT
- 3 AIR PITS & Pump
- 4 RIG
- 5 CAT WALK & PIPE RACKS
- 6 TRAILERS

DRILLING RIG LAYOUT

Outline of location Approximately 300' x 350'
No Scale

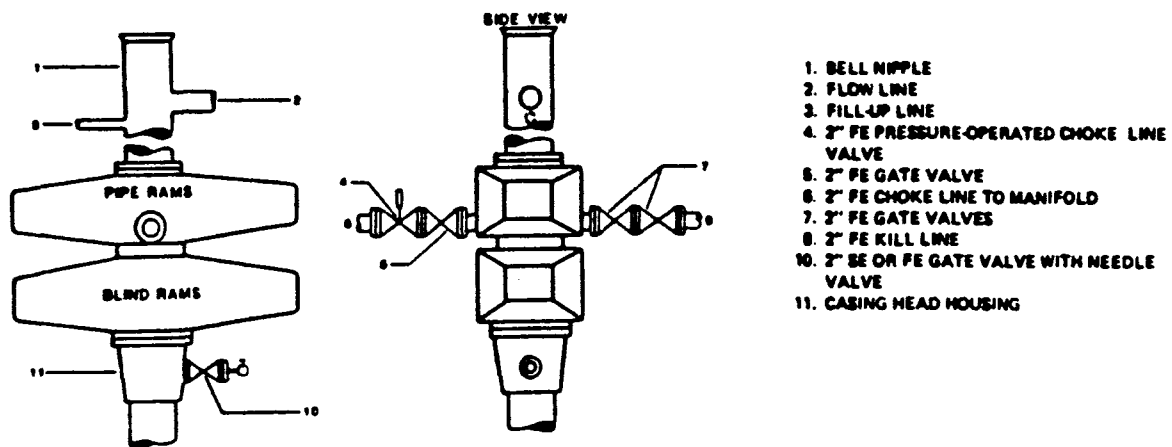


Figure 7-10. Standard Hydraulic Blowout Preventer Assembly
(2 M or 3 M Working Pressure) Alternative 3 (without Drilling Spool)

Well Control 4
January/83

PHILLIPS PETROLEUM COMPANY



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Section II

7.6 Testing Surface Blowout Preventer Equipment

7.6.1 Pressure Test Frequency

All rams, annulars, valves, choke and kill lines, choke manifold, kelly cocks, and safety valves shall be pressure tested at the following frequencies:

- (1) Initial installation of blowout preventers.
- (2) After setting casing, before drilling cement.
- (3) Every 7 days or on first trip out of hole after 7 days since previous pressure test.
- (4) After any component of the blowout preventer assembly is disturbed, replaced or repaired (this includes lines, valves, or choke manifold). In this case, the component changed may be the only component tested.
- (5) Prior to conducting first drill stem test in a series of one or more DST's.
- (6) Any time the Phillips Wellsite Supervisor deems necessary, such as prior to drilling into suspected high pressure zones.



7.6.2 Function Test Frequency

All rams, annulars, valves, and other items specified below, shall be function tested at the following frequencies.

- (1) On initial installation from driller control and remote panel.
- (2) Each trip out of hole alternating between driller's and remote control panel but not more than once every twenty-four (24) hours. Close pipe rams or annular preventer ONLY on drill pipe.

7.6.3 Test Pressures

Use the following table to identify which test is appropriate and at what pressure.

TEST	DESCRIPTION
Low Pressure	Test to 200-300 psi prior to each high pressure test.
Initial Installation	<p>Test all rams, annulars, valves, choke manifold, kelly cocks, and safety valves to the lesser of the following pressures.</p> <ul style="list-style-type: none"> . Rated working pressure of the component in the blowout preventer assembly with the exception of annular preventer which is to be tested to 70% of the rated working pressure. . The API rated casing burst pressure of the last casing to be utilized in the well with the BOP assembly being tested. . Rated working pressure of the casing head. . If "Cup Tester" is used do not exceed 80% of the API rated burst pressure of the casing.
Repair	Repaired or replaced components are to be tested to the same pressures used in the Initial Test.

7.6.3, cont'd

TEST	DESCRIPTION
Weekly and After Setting Casing	<p>Test all rams, annulars, valves, choke and kill lines, choke manifold, kelly cocks, and safety valves, to the lesser of the following pressures.</p> <ul style="list-style-type: none"> . 50% of the rated working pressure of the component to be tested. . 80% of the API rating of the casing burst pressure then in the well. . Test blind rams during internal casing pressure test. (Refer to drilling program for test pressures).
DST Operations	<p>Test all pipe rams, annular preventers, valves, choke and kill lines, choke manifold, kelly cocks, and safety valves to the maximum anticipated surface pressure expected while conducting drill stem tests. Do not test annular to more than 70% of its working pressure.</p>
Shallow Casing	<p>Where cased hole is less than 2000 feet measured depth, the test pressure may be 1.5 psi per foot of casing depth, not to exceed 80% of the API rated burst pressure. In the case of shallow conductor casing or drive pipe (500 feet or less) that is equipped with one BOP, then the test pressures do not need to exceed 1.0 psi per foot of casing depth.</p>
Accumulator	<p>Test accumulator to the manufacturer's rated working pressure. Test the accumulator for time to pump up to specifications.</p>

7.6.4 Blowout Preventer Test Practices

- (1) All pressure tests shall be witnessed by Phillips' Representative and the Contractor's Senior Supervisor on Location. All tests shall be recorded on the Phillips' Daily Drilling Report, the IADC Report and the BOP Test Form; see Figure 7-13. A reproducible copy of the BOP Test Form (Figure 7-13) can be found in Section III.

7.6.4, cont'd

- (2) Hold all low pressure tests for three minutes and high pressure tests for five minutes or until Phillips Representative and the Contractor's Senior Supervisor are satisfied no leaks exist.
- (3) A detail procedure for the testing of blowout preventer and choke manifold equipment will be included in the drilling programs. The procedure is to be distributed for each drilling unit under contract by the operating office. Each operating office must include the following practices:
 - a. Prior to testing, all lines and valves will be thoroughly flushed to ensure the system is clear. Test all opening and closing control lines to 1500 psi and inspect for leaks.
 - b. If necessary, run a stand of drill collars below the test plug to prevent unseating the test tool during testing.
 - c. All precautions must be taken to avoid pressuring the casing below the test tool.
 - d. The running string is to be full of water (or antifreeze solution) for immediate indication of test tool leakage.
 - e. All pipe rams, blind/shear rams, blind rams, annular preventers, valves, fail-safe valves, choke and kill lines are to be tested at the frequencies and pressures outlined in this section.
 - f. Drill pipe safety valve, lower and upper kelly cocks are to be tested from below at pressures and frequencies outlined in this section.
 - g. All test fluids are to be bled back to the pump unit in safe manner.

7.6.5 Testing Wellhead Pack-offs

The wellhead pack-off is to be pressure tested upon installation for five minutes. Test pressure is to be 80% API rated casing collapse or the rated working pressure of the casing head whichever is the lesser. Casing annulus valve(s) must be in open position to prevent casing collapse during pack-off testing.

When testing the wellhead pack-off, use recorded test pressures and volumes to determine if pack-off is leaking. Pressure should be immediately released at the first indication of a leak.

7.6.6 Safety Precautions

One pumping unit operator is to be stationed at the high pressure pumping unit, and is to remain at this station until all testing has been completed. The pump unit operator is to be in continuous communication with the person who is recording the test data. The Phillips Wellsite Supervisor and Contractor's Senior Supervisor on location will be the only personnel who will go into the test area to inspect for leaks when the equipment involved is under pressure. The rig crews are to stay clear of the area until such time that both the Phillips Wellsite Supervisor and the Contractor's Senior Supervisor have contacted the pumping unit operator and all three have agreed that all pressure has been released, and there is no possibility of pressure being trapped. The rig crews may then go into the area to repair leaks or work as directed.

All lines, swings, and connections that are used in the testing of the blowout preventers are to be adequately secured in place.

Pressure is to be released only through the pressure release lines that are vented back into the pump unit tanks. The lines are to be clamped down to direct the flow into unit tanks.



Project No. 19-85-C
BIA DCA-85-187

NAO-BIA Use Authorization
No. 84-DCA-013-1 (Navajo)
Navajo Nation Permit No. 84-22

State of Utah No. U-84-3

An Archaeological Survey Report and Mitigation
Plan for Two Oil Well Pads on Flat Top Mountain,
San Juan County, Utah

for

Phillips Petroleum Company

Ratherford Unit:

7-24

7-33

by

Timothy M. Kearns
Supervisory Archaeologist

Submitted by

Margaret A. Powers
Principal Investigator

DIVISION OF CONSERVATION ARCHAEOLOGY

Contributions to Anthropology Series, No. 964
San Juan County Archaeological Research Center and Library

April 23, 1985

ABSTRACT

On April 4 and 9, 1985, the Division of Conservation Archaeology of the San Juan County Museum Association completed an archaeological survey of two well pads for Phillips Petroleum Company. The survey area is located in the Ratherford Unit of the Aneth Oil Field on top of and adjacent to Flat Top Mountain, San Juan County, Utah. It is under the jurisdiction of the Bureau of Indian Affairs and Navajo Nation. A total of 10.09 acres was surveyed during this phase of the investigation.

Two archaeological sites were documented; one at each of the proposed well pad locations.

Archaeological clearance is recommended with the stipulation that a program of controlled surface collection and analysis be conducted for each site. This proposed action should mitigate any adverse impact resulting from well pad development. If this treatment program is implemented, clearance of both well pads is recommended.

INTRODUCTION

On April 4 and 9, 1985, the Division of Conservation Archaeology (DCA) of the San Juan County Museum Association conducted an archaeological survey for Phillips Petroleum Company of Cortez, Colorado. Jon Weichbrodt requested the survey on March 2, 1985 and administered the project for Phillips Petroleum Company. Margaret A. Powers administered the project for DCA.

In recognition of the limited, nonrenewable nature of archaeological remains, the federal government has enacted legislation that is designed to conserve and protect these resources. The principal legislation includes the Antiquities Act of 1906 (PL 52-209), the Historic Preservation Act of 1966 (PL 89-665), the National Environmental Policy Act of 1969 (PL 91-852), the 1971 Executive Order No. 11593, the Archaeological and Historical Conservation Act of 1974 (PL 93-291), and the Archaeological Resources Protection Act of 1979 (PL 96-95). In addition, the states of Arizona, New Mexico, Utah, and Colorado have enacted laws to ensure compliance with federal legislation and to protect archaeological resources within their jurisdiction. Work undertaken in the course of this project is intended to comply with these statutes and is governed by the stipulations of NAO-BIA Use Authorization No. 84-DCA-013-1, Navajo Nation Permit No. 84-22, and State of Utah Permit No. U-84-3.

Timothy M. Kearns and Roger A. Moore, DCA archaeologists, surveyed the project area for cultural remains. Anthony Klesert (Coordinator of the Navajo Nation Cultural Resource Management Program) and Mark Henderson (Bureau of Indian Affairs Navajo Area Archaeologist) were notified of the survey schedule prior to beginning fieldwork. Jon Weichbrodt was present during part of the field inspection on April 4, 1985, and he and Wayne Baysinger (Phillips Petroleum field foreman) visited the two well pad locations with the archaeologist on April 9, 1985.

METHODS

The area was surveyed by walking linear transects spaced approximately five meters apart across the well pads. The transects covered the entire pad area. A zigzag pedestrian survey was conducted along the proposed access roads and flow lines. This covered an area 20 ft wide for the roads and 10 ft wide for the flow lines. Buffer zones of approximately 50 ft around the well pads, 20 ft for the access roads, and 10 ft for the flow lines were also examined. The archaeologists recorded all cultural remains. Those whose information potential exceeded what could be extracted during the survey phase were assigned site status. Other cultural remains were documented as isolated occurrences (IO). Pertinent environmental data were also recorded.

In addition to field inspection, the archaeologists conducted a search of the records at the Division of Conservation Archaeology, San Juan College, the Navajo Nation Cultural Resource Management Program in Farmington, and the Utah Division of State History to determine if any sites had been recorded in the project area. Site and project records required by the BIA and the Utah Division of State History were completed.

The two well pads discussed in this report were examined as part of a larger archaeological reconnaissance of 19 well pads and their attendant access roads and flow lines (Moore and Kearns 1985). The two locations described herein have been separated from the others because they require additional archaeological investigation to mitigate the impact to cultural resources at the well pad sites. Chapter II provides an environmental overview, describes the well pads, roads, and flow lines, and identifies the cultural resources encountered. Chapter III presents a proposed treatment plan for the two sites recorded at the well pad locations.

PROJECT DESCRIPTION

The project area is located on the Navajo Indian Reservation and is under the jurisdiction of Bureau of Indian Affairs, Window Rock office. The areas surveyed are within the Phillips Petroleum Company's Ratherford Unit in the Aneth Oil Field approximately two miles south-southwest of the community of Montezuma Creek, San Juan County, Utah. Legal descriptions, project areas, and areas surveyed are identified in Table 1. Figure 1 illustrates the location of the surveyed units.

The well pads, access roads and flow lines are situated on top and along the west flank of Flat Top Mountain, a prominent isolated mesa 0.7 miles south of the San Juan River and two miles east of Desert Wash. Flat Top Mountain is a remnant of the upper Jurassic Morrison Formation with varicolored Brushy Basin Member siltstones (mudstones) overlying the Westwater Canyon Member sandstones. The talus-strewn mesa flanks drop steeply 200 ft to 400 ft to the eroded badlands and rolling dune fields below. The mesa top is characterized by broad, flat-top ridges and benches, gentle slopes and rock ledges and outcrops. Much of the mesa top is capped by an incipient desert pavement interrupted by the low ledges and rock outcrops. Aeolian sand is intermixed with the surface rock, although never plentiful enough to form deposits of sheet sand or dunes. A dark chocolate brown to black "desert varnish" coats the exposed sandstone and siltstone. Much of the siltstone is siliceous and can be classified as chert or cherty siltstone. This was apparently a favored flaked stone tool material prehistorically; evidence of its use is common on and around Flat Top Mountain. Aside from an occasional pocket in the rock outcrops, ephemeral drainages provide the only water available on Flat Top Mountain. Presently, the closest water sources are the San Juan River to the north and northeast and a spring roughly 0.4 miles south of the mesa.

The sparse vegetation on the mesa top and flank is an Upper Sonoran shadscale community. Attendant species include shadscale (Atriplex confertifolia), snakeweed (Gutierrezia sarothrae), prickly pear (Opuntia sp.), bud sage (Artemisia spinescens), narrowleaf yucca (Yucca angustissima), occasional blackbrush (Coleogyne ramosissima), sparse grasses (Hilaria jamesii), and miscellaneous annuals.

Both well pads are situated along the upper west edge of the mesa and are 1225 ft (367m) apart. They utilize the same primary access road. Their flow lines drop off the mesa edge, run down the steep slopes, and converge at a

satellite collection station on the sand-capped and eroded plain at the base of the slope. Geology and vegetation are essentially the same for both and are briefly described below.

Table 1. Project Areas

Well Pad 7-24 (POC-R255)

Legal Description: T41S, R24E, Section 7, NE 1/4 SE 1/4 SW 1/4
 UTM Coordinates: Zone 12, 4121700N, 648700E (center of pad)
 Zone 12, 4121800N, 648825E (end of access road)
 Zone 12, 4122025N, 648500E (end of flow line)
 Footage for Well: 880' F/SL, 2414' F/WL
 Well Pad Area: 300' x 350' (400' x 450')*
 Access Road Area: 250' x 30' (250' x 60')
 Flow line Area: 1000' x 10' (1000' x 30')
 Total Acres Surveyed: 5.17

Well Pad 7-33 (POC-R254)

Legal Description: T41S, R24E, Section 7, NE 1/4 NW 1/4 SE 1/4
 UTM Coordinates: Zone 12, 4122100N, 648675E (center of pad)
 Zone 12, 4122094N, 649020E (end of access road)
 Zone 12, 4122025N, 648500E (end of flow line)
 Footage for Well: 2105' F/SL, 1876' F/EL
 Well Pad Area: 300' x 350' (400' x 450')
 Access Road Area: 25' x 30' (25' x 60')
 Flow line Area: 1100' x 10' (1100' x 30')
 Total Acres Surveyed: 4.92

*Figures in parentheses represent actual area surveyed including buffer zones.

7-24 Well Pad, Access Road and Flow Line

This pad is located along the western edge of Flat Top Mountain just south of where the mesa edge curves east. It is 190 ft (57m) north of a deep, steep-sided ravine that cuts the mesa flank, and is immediately north of a flat-topped bench and low rocky ledge. A flat-topped rise borders the well pad on the southeast and the incipient desert pavement terrain slopes gently to the west and north, terminating at the rocky mesa edge. The corrosion pit lies along the eastern edge of the pad and the access road runs from the northeast corner approximately 250 ft (75m) northeast across the mesa top to an existing bladed road. The flow line extends north from the northern edge of the pad meets an existing flow line, and drops down the steep rock-strewn flank of the mesa. At the bottom of the mesa, the flow line veers to the west to intersect the satellite station in the NE 1/4 of the SW 1/4 of Section 7. This line covers a linear distance of approximately 1000 ft (300m).

Cultural Resources: A diffuse lithic scatter (42SA16950) occurs over much of the well pad area. This is characterized by dispersed isolated occurrences

and sparse clusters of flake debris, cores, and retouched core and flake implements. All of the artifacts are made of the locally available siliceous siltstone. Many artifacts exhibit a moderate to heavy coating of "desert varnish" on their flaked surfaces, while others lack varnish. The assemblage indicates use of this locale as an occasional lithic procurement area (quarry) where the local siltstone was modified into cores, flakes, and tools. It is likely that tool use (workshop activity) occurred here as well. The varying degrees of post-fabrication alteration (varnish) indicates use of this locale at different points in time. No culturally or temporally diagnostic artifacts were noted. In other areas of the southwest, however, desert varnish is considered indicative of considerable antiquity (Hayden 1976, Rogers 1966:35). It is possible that this site is part of a much larger general use area extending across the mesa top. Examination of the immediate vicinity, however, indicates that 42SA16950 represents a relatively discrete locus of prehistory activity.

Recommendations: Avoidance of the cultural resources is the preferred alternative. However, consultation with Jon Weichbrodt (Phillips Petroleum engineer) and Wayne Baysinger (Phillips Petroleum field foreman) indicates that the present proposed well locations are the most feasible choice. The abrupt drop to the west and north prevents moving the pad in those directions and the location of the deep ravine to the south coupled with the distribution of artifacts does not allow sufficient area for a relocation in that direction. Moving the well pad to the east, while possible, would require a slanted drilling procedure and is considered cost-prohibitive. Consequently, a plan of controlled surface collection and analysis has been recommended and is outlined in Chapter III.

7-33 Well Pad, Access Road and Flow Line

This pad is located along the western edge of Flat Top Mountain on a long, narrow, (120m wide) flat-top ridge that extends north from the main body of the mesa. The steeply dropping mesa flank borders the pad on the west and rocky outcrops lie south and east of the proposed pad. The pad and surrounding area is relatively flat with an incipient desert pavement surface. A powerline and bladed road cut across the eastern edge of the pad and a bulldozed trench (roughly 3m wide, 10m long) occurs within the pad area. The corrosion pit is along the east side of the pad, and the access road runs from the east edge of the pad approximately 25 ft (8m) to the bladed road. The flow line extends from the west side of the pad, drops down the abrupt west flank of Flat Top Mountain, and runs west-southwest to the Section 7 satellite collection station. The flow line travels approximately 1100 ft (330m) from the mesa top pad to the satellite station in the sand-capped and eroded plain below.

Cultural Resources: A diffuse lithic scatter (42SA16951) occupies much of the well pad and ridge top area 30m to the north and east. The site is characterized by a very diffuse, sparse scatter of isolated and lightly clustered flake debris, cores, and retouched tools. All of the artifacts are manufactured from the locally available siliceous siltstone and exhibit varying degrees of desert varnish on their flaked surfaces (from absent to heavy). The assemblage indicates use of 42SA16951 as a limited use lithic procurement (quarry) and tool use (workshop) locale. The limited assemblage size and varying degrees of varnish indicates the site was the scene of low

intensity use at different periods through time. Although no culturally or temporally diagnostic artifacts were noted, the presence of varnish on some of the artifacts indicates some antiquity (see discussion of cultural resources for well 7-24).

Recommendations: Avoidance of the cultural resources is the preferred alternative. However, consultation with Jon Weichbrodt (Phillips Petroleum engineer) indicates that relocation of the pad is not feasible. The abrupt drop to the west prevents moving the pad in that direction. Relocation to the east and south would require a slanted drilling procedure, which is considered cost-prohibitive; and movement to the north is hampered by the proximity of a water injection well in that direction. Therefore, a program of controlled surface collection and analysis has been recommended and is outlined in Chapter III.

CHAPTER III

Treatment Plan

This chapter presents a research design and strategy for the recovery of archaeological data from sites 42SA16950 and 42SA16951. The sites are located within the area slated for oil well development and will be subject to adverse impact resulting from the well pad construction. Although avoidance is the primary recommendation, it is not a feasible alternative for the two proposed well pads. Therefore, the following treatment plan has been developed.

The two threatened sites (42SA16950 and 42SA16951) are both surface lithic scatters situated in similar environmental settings. Both sites are relatively sparse, dispersed scatters of lithic artifacts and appear to represent the cumulative residue of a series of short-term limited activity episodes. The lithic material used is available at each site and on-site quarrying and tool use activities are indicated. The variability in degree of desert varnish coating on the artifacts from both sites indicates repeated use of the locales through time. The present vegetation is a shadscale community. However, given the potential antiquity of the heavily varnished artifacts, considerable change in the local floral communities may have occurred since the time the sites were initially used.

The similarity in the assemblage characteristics at the two sites, their similar environmental settings and relative proximity is such that the same research design and data recovery methods are applicable for each site. These are discussed below.

Research Design

Investigations at 42SA16950 and 42SA16951 will address a series of research questions or problem domains that are considered germane to the cultural resources and that can potentially provide a significant contribution to the prehistory of southeast Utah. They include a set of specific research goals that come under the headings of cultural history, cultural ecology, and site formation processes.

A primary research question concerns the identification of the temporal affiliation of the sites. That is, when were the sites utilized? As aceramic lithic scatters with no diagnostic tools, the sites could represent use by one or more of the cultural complexes that have participated in southeast Utah's prehistoric past. This could include Paleoindian groups with Clovis or Llano to Plano affiliations (Nickens 1982:3-9; Hicks 1976); Archaic populations (Mohr and Sample 1959; Lindsay et al. 1968; Irwin-Williams 1973; Nickens 1982:12-18); Anasazi groups from Basketmaker II through Pueblo III (e.g., Kidder and Guernsey 1919; Guernsey and Kidder 1921; Prudden 1905, 1918; Gladwin and Gladwin 1934; Brew 1946; Martin 1936, 1938, 1939; Winter 1975, 1976, 1977) and late prehistoric-protohistoric Navajo and Ute groups (Nickens 1982:36-39). The presence of a variable coating of desert varnish over the flaked surfaces of some artifacts and its absence on others is considered evidence that the sites were used at different points in time. The occurrence of varnish on artifacts elsewhere in the Southwest is considered evidence for considerable antiquity (Rogers 1966:35; Hayden 1967:336, 337). Hayden, working with surface assemblages in northern Sonora, Mexico, has suggested that the formation of desert varnish there is an Altithermal phenomena (1976:277).

Comparison with recently recovered Folsom artifacts from a surface site on Lime Ridge, San Juan County, Utah (collected by Bill Davis, Abajo Archaeology 1984) indicates that many of the 42SA16950 and 42SA16951 artifacts have a considerably greater degree of varnish than the Folsom specimens. This may be due to locational nuances or greater age. Also, Davis et al. (1969:35) note that at the basalt quarries in the Panamint Basin, California there is a set of heavily weathered artifacts that are simpler in design and have fewer flakes removed than the Western Lithic Co-tradition artifacts dated at least 8000 years BP. They (ibid.) note that this appears to be a flake and chunk, rather than a biface industry and corresponds to the Malpais (or San Dieguito I) industry of Rogers (1939). The 42SA16950 and 42SA16951 assemblages may contain implements of comparable age.

Both sites are also in an incipient desert pavement context (cf., Rogers 1966:39-45). Research at desert pavement sites has indicated that the placement of artifacts vis-a-vis the pavement surface can be an important indication of relative age (Hayden 1965; Rogers 1966:42, 43). That is, an artifact incorporated into the pavement surface should be older than one resting on the pavement surface.

Specific research questions oriented toward the identification of temporal affiliation at 42SA16950 and 42SA16951 include:

1. When were the sites utilized?
2. How many periods of use can be identified at the sites?
3. Do the periods of use at the sites correspond to one another?
4. Can use episodes at each site be ordered chronologically?
5. Can the degree of desert varnish be utilized as a relative dating criteria in this portion of the southwest?

6. Can the varying degrees of desert varnish be equated with relative periods of time (e.g., major climatic episodes)?

Several avenues of investigation will be directed toward answering these questions. It is doubtful that any absolute chronometric samples (e.g., C-14 samples) will be encountered during the investigations. Also, no diagnostic artifacts (e.g., projectile points) were noted during the survey. Therefore, chronological ordering will rely on relative dating methods. This will include documentation and analysis of the horizontal and vertical relationships of the artifacts. Attention will be directed toward identifying the relative placement of the artifacts vis-a-vis the desert pavement surface and the relative clustering of artifacts across the site area. This analysis will be coupled with analysis of the relative degree of desert varnish present on the flaked surfaces of the artifacts. It is hoped that the varying degrees of varnish will cluster into distinct groups that can be identified with different periods of site use.

Also, attention will be directed to the technological attributes of the lithic reduction strategies represented at the sites. This approach, albeit in its infancy, has been applied elsewhere to aceramic lithic scatters that lack any readily identifiable temporal indicators (e.g., Chapman 1982; Simmons 1982:744-771; Moore 1983). As previously noted, the difference in reduction trajectory and degree of reduction coupled with the relative degree of weathering was cited by Davis et al. (1969:35) as evidence for a separate cultural component at the Panamint Basin basalt quarries.

The relationship of the sites to the prehistoric settlement-subsistence systems of the region is another problem domain to be investigated at 42SA16950 and 42SA16951. It is hypothesized that the sites functioned as extractive and processing locales removed from the residential base. As such, they are analogous to the "locations" of Binford (1980:9). What tasks or activities were conducted at the sites? Both sites appear to have functioned as lithic procurement locales where the locally available cherty siltstone was exploited infrequently. The occurrence of retouched tools along with quarry debris further indicates that the sites were workshop locales where tool use activities occurred as well. The proposal that quarries were also the locus of tool manufacture (other than stone tools) has been presented by other researchers (Bryan 1950; Davis, Brott and Weide 1969), yet has not been adequately demonstrated. Settlement investigation at 42SA16950 and 42SA16951 will be directed to the following questions:

1. What activities can be identified?
2. Do the activities represent repetitive sets of similar tasks; or are different activity sets represented at the two sites or through time?
3. How did these sites function within past settlement systems? That is, what type of site is represented and how does this interface with other sites in the region?
4. Do the sites represent both lithic procurement locales and workshops?

5. Do the sites represent temporary camps or simply limited activity loci?
6. Does the range of activities indicate use of the locale under different environmental circumstances than exist today?

Artifact analysis will be geared to resolving these questions. Identification of the functional characteristics of the assemblages will be oriented toward determining the range of activities at both sites. This will incorporate analysis of tool morphology, use wear, and edge angle. The spatial patterning of the artifacts, coupled with analysis of varnish variability will be investigated to identify activity sets and to determine the spatial organization of activities. Once the spatial organization of activity areas is identified for artifact sets of similar degrees of varnish, investigation will be directed toward identifying the type(s) of site represented (i.e., quarry, workshop, camp) and role of the site in past settlement systems.

Site formation processes will be another avenue of investigation. That is, how did the sites develop? Are they the result of gradual accretion through time, or are they the result of several relatively intense, short periods of use? Were the sites occupied prior to or during the development of the incipient pavement? It is hypothesized that the sites represent the cumulative residue of a series of short-term use episodes; and that these use episodes were widely spaced through time. Also, it is hypothesized that those artifacts exhibiting a heavy coating of desert varnish are actively becoming a part of the developing desert pavement and were deposited prior to its formation. Investigation of the site formation processes will incorporate site structure studies (i.e., distribution of artifacts) coupled with investigation of relative degree of varnish and placement relative to the pavement surface.

Data Recovery

The techniques of data recovery will be the same for 42SA16950 and 42SA16951. This will include a phase of intensive controlled surface collection in the field, followed by a phase of analysis. The incipient desert pavement setting negates the need for subsurface testing. All of the artifacts are either part of the pavement or resting on top of it. The site area will be identified, and a datum established. The datum will be tied to permanent reference points. Closely spaced (1-2m) transects will then be walked over the site and all cultural remains will be pinflagged. A transit established at the datum will be used to map the distribution of artifacts (and features if noted) and the topographic setting of the site. The artifacts will be assigned field specimen numbers when they are plotted, then collected and placed in labeled bags for transport to the lab. Notes on the placement of the artifact relative to the ground surface (pavement) and on which side of the artifact is uppermost will be taken on all specimens. This phase of investigation will be conducted by a supervisory archaeologist and one staff archaeologist. Four person days are estimated for data recovery at 42SA16950 and three person days are estimated for 42SA16951.

Following the field work, all recovered materials will be removed to the DCA laboratory for processing and analysis. All materials recovered will be curated at the San Juan County Archaeological Research Center and Library, Farmington, New Mexico.

Artifact analysis will proceed in two stages. The first of these is initial laboratory processing when the artifacts will be washed, labeled and catalogued. This phase is estimated to require one and one half person days for both sites.

The second stage, consisting of analysis of the lithic artifacts, will be conducted by qualified individuals with considerable experience in lithic artifact studies. Analysis of the artifacts will be oriented toward obtaining information relevant to the sites' chronology. The analyses will also be directed toward obtaining information regarding both the synchronic and diachronic aspects of activity parameters within the site, the structure of particular activity areas (to determine site space use and residential configurations), site formation processes (cultural and environmental), and post-occupational disturbance (i.e., site integrity). Analysis will incorporate the use of contour maps (isopleth maps) of cultural materials (debitage, tools, and features, if noted) to examine site use and activity distribution.

Lithic Studies

The analysis of the lithic materials recovered will be oriented toward obtaining information concerning temporal placement of diagnostic artifacts and technological attributes, as well as the functional and behavioral parameters inherent in their form, use and provenience. Toward this goal a series of attributes will be documented, computer-coded, and manipulated using various computer programs and distribution studies. The relative degree of desert varnish coating on the flaked surfaces of the artifacts will be monitored and thin section cuts of selected specimens will be prepared to obtain absolute measurements of the varnish coating. Sections from unmodified rocks at the site will also be prepared to provide a comparison between the artifacts and the pavement setting. This phase of investigation will also require consultation with geologists familiar with the development of desert varnish and, specifically, its occurrence in the Four Corners region of the Southwest. Also, if possible, trace element analysis will be conducted on the varnish of an unmodified rock from the sites to determine its composition and relationship to desert varnish in other portions of the Southwest and Great Basin. Analysis will also incorporate studies of the placement of the artifacts relative to the present ground (pavement) surface. That is, does a particular specimen lie on top of the pavement or is it incorporated into the surface of the pavement? If it is incorporated into the pavement, is it above or below other elements of the pavement?

For unutilized debitage the following information will be monitored and manipulated: 1) the type of flake will be determined primarily by the amount of cortex remaining on the dorsal surface of the flake, (i.e., primary decortication, secondary decortication, tertiary or interior, angular fragment); 2) functional information including reduction sequence data will be determined by size, platform attributes, dorsal surface attributes, and termination; 3) material will be identified to determine the amount of local

versus exotic material used (relevant to the mobility parameters of the local populations), variability between curated and expedient technologies in material selection, and information concerning intra-site structure; 4) manufacturing information will be monitored to examine variability in technology through time and between different activity locales and to examine expertise preparation, removal technique (hard hammer, soft hammer, pressure), completeness, and termination.

Chipped stone tools can be an important source of temporal, spatial and functional information. Analysis will be oriented toward obtaining information about the type of stone tool (functional and morphological attributes), the temporal variability in stone tool types and the variability in occurrence between curated and expedient tools (functional information studies will include use wear, reduction stage, recycling, edge angle and association). Material will be analyzed to determine mobility parameters and functional variability and discard behavior (spatial patterning, amount of use). Analysis of the collected artifacts is estimated to require three person days, although this may vary depending upon the number of specimens recovered.

Report Preparation

A report documenting the investigations at the two sites will be prepared following completion of the various analyses. The report will include a description of the site, the field methodology, excavation results (including artifact and feature descriptions), analyses results, interpretation, and summary. Photographs, graphs, tables and line drawings will be incorporated into the report which will be of a standard appropriate to the archaeological profession. It is estimated that six person days will be required for this phase of the project.

Institutional and Individual Qualifications

Facilities and Staff

The Division of Conservation Archaeology (DCA) is housed in the San Juan County Archaeological Research Center and Library at Salmon Ruin and is administered by the San Juan County Museum Association. In addition to laboratory and office space, the research center is equipped with facilities for photographic development, drafting, and macrobotanical processing and analysis. The center includes a library of approximately 3000 volumes pertaining to local history and local and regional prehistory. The library also contains reports of archaeological contract projects generated by the Navajo Tribe, the University of New Mexico, San Juan College, the Bureau of Land Management and others engaged in archaeology in the Four Corners area. The research center serves as a curation facility for artifacts, samples, and documents derived from DCA work. It is one of three such institutions in the immediate Four Corners area; Edge of the Cedars Museum in Blanding, Utah, and the Anasazi Heritage Center in Dolores, Colorado being the other two.

DCA has several pertinent reference collections: local ceramic types, samples of lithic raw material sources, seeds and plants from the Four Corners area, and clay samples from the region. DCA maintains standard equipment and

supplies for both survey and excavation (cameras, screens, a transit, etc.). The division also has two microcomputers with 128K memory and up to 5M bytes storage capacity. Both computers have word processing capabilities and are programmed with data management and statistical programs as well. The data management program will handle files with up to 32,000 records with as many as 80 categories of information for each record. The statistical software performs descriptive statistics, such as frequency histograms and means; inferential tests, such as the t-test; Chi-square, and analysis of variance; nonparametric statistics, and various forms of multiple regression.

All members of DCA's staff are specialists in various aspects of Four Corners history and prehistory. The staff can perform ceramic, lithic, historic artifact, prehistoric architecture, faunal and macrobotanical analyses. They also do technical photography, archaeomagnetic sampling, drafting, and some scientific illustration. The core staff have all been employed at DCA for more than two years, and they have been responsible for approximately 500 survey and excavation projects in the region since 1980. Margaret Powers, DCA's Principal Investigator, has been employed at the research center since 1978 and has been principal investigator since 1980.

Personnel Qualifications and Administrative Organization

The Division of Conservation Archaeology is directed by Margaret A. Powers, the Principal Investigator. She reports directly to the Museum Director and to the Board of Trustees of the San Juan County Museum Association. The Principal Investigator is responsible for the conduct of research, personnel assignments, project scheduling, cost accounting, and content and technical editing. Other members of the staff assist in these tasks.

The investigations at 42SA16950 and 42SA16951 will be directed by Roger Moore or Timothy Kearns. Moore (M.A., Anthropology, 1981) has extensive experience in lithic analysis, most recently working with the Dolores Archaeological Program and as laboratory director with the Navajo Nation on the Navajo Indian Irrigation Project. Among his specialties is the interpretation of soils in their archaeological context. Moore has 12 years of survey and excavation experience in the Southwest and Midwest. Kearns (B.A., Anthropology, 1972) also has extensive experience in studying lithic sites, ranging from California to Wyoming to southern and northern New Mexico. He has most recently conducted excavations in a multiple component Late Archaic, Basketmaker II and historic Indian site in the Abiquiu area of northern New Mexico and has completed intensive in-field analysis of lithic sites in southeastern New Mexico. He has 11 years of experience in the Southwest encompassing both survey and excavation.

The other member of the research team will be selected from DCA's core staff. The field director (Supervisory Archaeologists) will supervise the day-to-day operation of the data recovery program. The principal investigator will oversee all aspects of data recovery and analyses. The field director and the principal investigator will work together to develop the strategy of data recovery and data analysis. The field director is charged with the implements of that program. He is also responsible for the analysis of the

materials recovered from the site and the preparation of the report. DCA's staff will provide support of various kinds for the field director. The vitae for the principal investigator and the proposed field director are included as Attachment 1.

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Subject
To be published

20'

17'30"

R 23 E
R 24 E

Aneth 3 NE, Utah
San Juan Co.
USGS 7.5 (BlueLine)

T41S, R24E
T41S, R23E

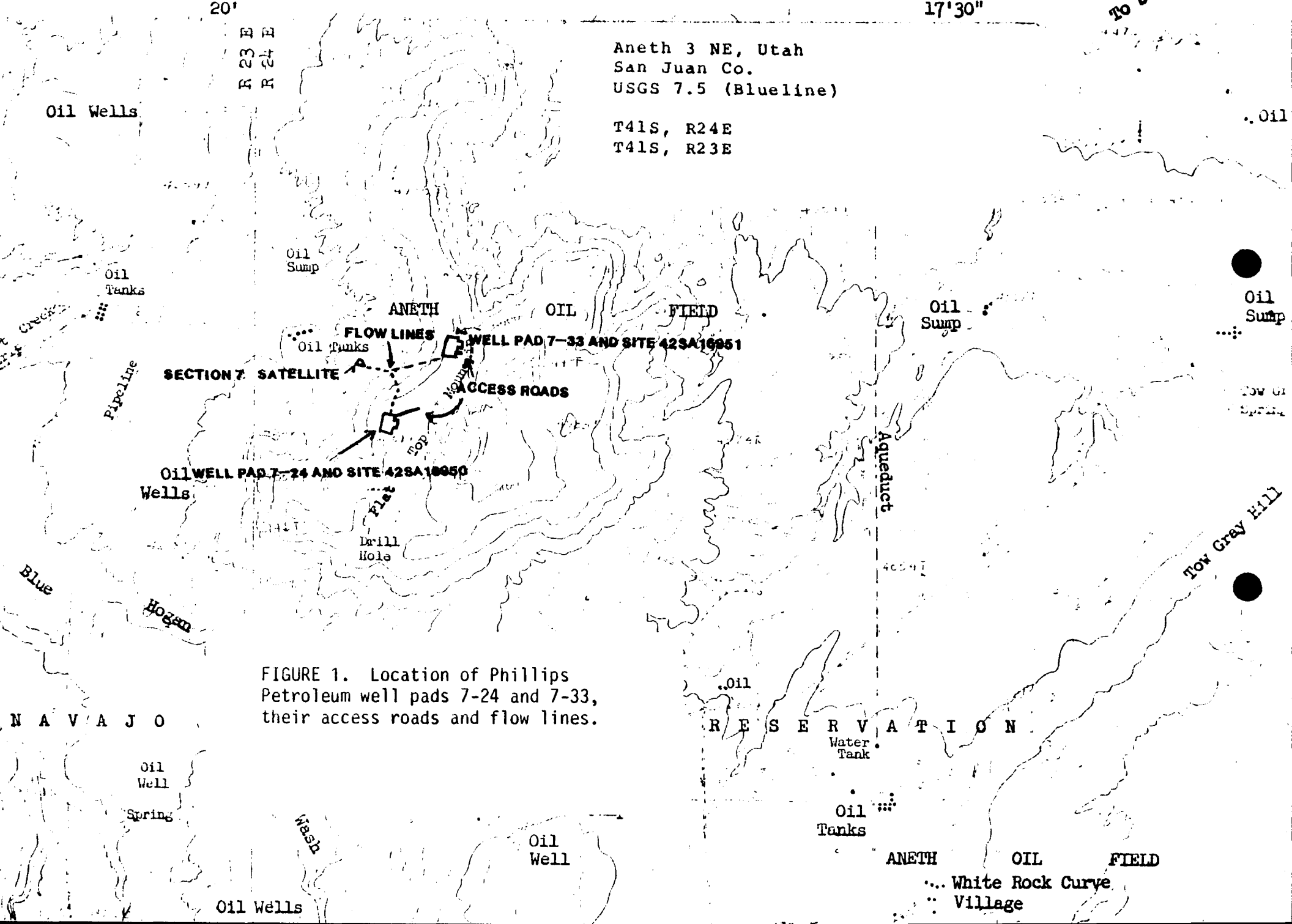


FIGURE 1. Location of Phillips Petroleum well pads 7-24 and 7-33, their access roads and flow lines.

ATTACHMENT 1

VITAE (FOR BIA USE ONLY)



DIVISION OF CONSERVATION ARCHAEOLOGY

San Juan County
Museum Association

April 23, 1985

Mr. Jon Weichbrodt
Phillips Petroleum Company
P.O. Box 1150
Cortez, Colorado 81321

Re: BIA DCA-85-187

Dear Mr. Weichbrodt:

Our report on the archaeological survey of proposed well pads 7-24 and 7-33 and their attendant access roads and flow lines on Flat Top Mountain in the Rutherford Unit of the Aneth Oil Field, San Juan County, Utah is enclosed. Two sites (42SA16950 and 42SA16951) were found. Both are diffuse scatters of lithic artifacts which occur over the areas proposed for the well pads.

We have recommended clearance for the two well pads with the stipulation that a thorough recovery of the information values at both sites be obtained through a program of controlled surface collection and analysis. Details of this proposed action are included in the accompanying report.

The Bureau of Indian Affairs will review this report and make the final decision on archaeological clearance for your project. The Bureau of Indian Affairs in Window Rock should notify the Real Property Management office of the Shiprock Bureau of Indian Affairs of its decision.

Also enclosed is an invoice for our services. These include the survey (fieldwork) of 19 well pads, access roads and pipelines, the enclosed written report, and the report prepared by Roger A. Moore and Timothy M. Kearns for the remaining 17 well pads. We have enjoyed working with you and hope we can be of service again. If you have any questions, please call us. We will be happy to help you.

Sincerely,

Timothy M. Kearns
Supervisory Archaeologist

cc: Mark Henderson, BIA, Window Rock (6)
State Historic Preservation Office, Salt Lake City

APPLICATION TO APPROPRIATE WATER STATE OF UTAH

NOTE:—The information given in the following blanks should be free from explanatory matter, but when necessary, a complete supplementary statement should be made on the following page under the heading "Explanatory."

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, for uses indicated by (X) in the proper box or boxes, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

1. Irrigation ☐ Domestic ☐ Stockwatering ☐ Municipal ☐ Power ☐ Mining ☒ Other Uses ☐

2. The name of the applicant is PHILLIPS PETROLEUM COMPANY

3. The Post Office address of the applicant is Bartlesville, Oklahoma

4. The quantity of water to be appropriated is -- 8 -- second-feet or acre-feet

5. The water is to be used for See Explanatory from January 1 to December 31
(Major Purpose) (Month) (Day) (Month) (Day)

other use period from to
(Minor Purpose) (Month) (Day) (Month) (Day)

and stored each year (if stored) from to
(Month) (Day) (Month) (Day)

6. The drainage area to which the direct source of supply belongs is (Leave Blank)

7. The direct source of supply is Underground water and subsurface flow of San Juan River
(Name of stream or other source)

which is tributary to Colorado River tributary to

*Note.—Where water is to be diverted from a well, a tunnel, or drain, the source should be designated as "Underground Water" in the first space and the remaining spaces should be left blank. If the source is a stream, a spring, a spring area, or a drain, so indicate in the first space, giving its name, if named, and in the remaining spaces, designate the stream channels to which it is tributary, even though the water may sink, evaporate, or be diverted before reaching said channels. If water from a spring flows in a natural surface channel before being diverted, the direct source should be designated as a stream and not a spring.

8. The point of diversion from the source is in San Juan County, situated at a point*

~~See Explanatory~~ #1-S. 1000 ft. and W. 150 ft.; #2-S. 1000 ft. and W. 150 ft.; #3-S. 1000 ft. and W. 750 ft.; #4-S. 1000 ft. and W. 1050 ft.; #5-S. 1000 ft. and W. 1350 ft.; #6-S. 1000 ft. and W. 1650 ft.; #7-S. 1000 ft. and W. 1950 ft.; #8-S. 1000 ft. and W. 2250 ft.; #9-S. 1000 ft. and W. 2550 ft.; and #10-S. 1000 ft. and W. 2850 ft.; all from NE Cor. Sec. 5, T15S, R24E, S13&M. (See letter of 3-16-37 attach

*Note.—The point of diversion must be located definitely by course and distance or by giving the distances north of south, and east or west with reference to a United States land survey corner or United States mineral monument, if within a distance of six miles of either, or if at a greater distance, to some prominent and permanent natural object. No application will be received for filing in which the point of diversion is not defined definitely.

9. The diverting and carrying works will consist of See Explanatory

10. If water is to be stored, give capacity of reservoir in acre-feet height of dam
area inundated in acres legal subdivision of area inundated

11. If application is for irrigation purposes, the legal subdivisions of the area irrigated are as follows:

 Total Acres

12. Is the land owned by the applicant? Yes No

13. Is this water to be used supplementally with other water rights? Yes No

If "yes," identify other water rights under explanatory.

14. If application is for power purposes, describe type of plant, size and rated capacity

15. If application is for mining, the water will be used in Greater Aneth Area

~~oil field~~ where the following ores are mined oil and gas

16. If application is for stockwatering purposes, number and kind of stock watered

17. If application is for domestic purposes, number of families to be served

18. If application is for municipal purposes, name of municipality

19. If application is for other uses, include general description of proposed uses

20. Give place of use by legal subdivision of the United States Land Survey for all uses described in paragraphs 14 to 19, incl. See Explanatory

21. The use of water as set forth in this application will consume -- 8 -- second-feet of water
and -- 0 -- second feet will be returned to the natural stream or source at a point described
as follows:

POOR COPY

EXPLANATORY

The following additional facts are set forth in order to define more clearly the full purpose of the proposed application:

ITEM 7

The water will be pumped from the diversion area to the oil field where the water will be injected under pressure through deep wells into the petroleum-bearing formations for pressure maintenance and secondary recovery purposes.

ITEM 8

The point or points of diversion from the source will be in Section 5, T41S, R24E S1M, San Juan County, situated as follows: From that point at which the south bank of the river channel intersects the east line of Section 5, T41S, R24E, to that point at which the South bank of river channel intersects the North line of Section 5, T41S, R24E.

Diversion will be from one or more wells or infiltration galleries to be drilled in the alluvial fill and to be located as close to the South bank of the river channel as is practical within the east-west limits as above defined. Specific location and number of diversion points will be determined by a hydrographic survey and/or producing characteristics of wells to be drilled. The aggregate withdrawal, the rate of which is not to exceed that specified in this application, will be commingled in a conveyance works described in greater detail herein.

ITEM 9

The diverting and carrying works will consist of 12-1/4" diameter wells, cased with 35 to 50 feet of 8-5/8 inch outside diameter pipe to be drilled to depths of from 35 feet to 50 feet and about 10,000 feet of 10-3/4 inch conveyance pipe to places of use.

ITEM 20

Township 41 South, Range 23 East, S1M

S/2 Sec. 1; SE/4 Sec. 2; E/2 Sec. 11; All Sec. 12; All Sec. 13, E/2 Sec. 14, NE/4 Sec. 24.

Township 41 South, Range 24 East, S1M

All Sections 3, 4, 5, 6, 7, 8, 9, 10; W/2 Sec. 11, W/2 Sec. 14; All Sections 15, 16, 17, 18, 19, 20, 21; NW/4, W/2 SW/4 Sec. 22; W/2 NE/4, NW/4, W/2 SW/4 Sec. 28; All Sections 29, 30; N/2 Sec. 31; N/2 Sec. 32.

Said described lands, which are in San Juan County, Utah, constitute the Rathford portion of the Greater Aneth Area oil field.

Continued on page 4

(Use page 4 if additional explanatory is needed.)

The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described.

PHILLIPS PETROLEUM COMPANY

By: *L. E. Fitzgibbon*

Signature of Applicant

VICE PRESIDENT OF PRODUCTION

*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its proper officer, or in the name of the partnership by one of the partners, and the names of the other partners shall be listed. If a corporation or partnership, the affidavit below need not be filled in. If there is more than one applicant, a power of attorney, authorizing one to act for all, should accompany the Application.

DECLARATION OF CITIZENSHIP

STATE OF UTAH,
County of _____ } ss

On the _____ day of _____, 19____, personally appeared before me, a notary public for the State of Utah, the above applicant who, on oath, declared that he is a citizen of the United States, or has declared his intention to become such a citizen.

My commission expires:

(SEAL)

Notary Public

POOR COPY

FEEES FOR APPLICATIONS TO APPROPRIATE WATER IN UTAH

Flow rate — c.f.s.	Cost
0.0 to 0.1.....	\$ 10.00
over 0.1 to 0.5.....	20.00
over 0.5 to 1.0.....	30.00
over 1.0 to 15.0.....	30.00 plus \$5/cfs above 1.00 cfs.
over 15.0.....	100.00
Storage — acre-feet	
0 to 20.....	15.00
over 20 to 500.....	30.00
over 500 to 7500.....	30.00 plus \$5/500 a. f. above first 500
over 7500.....	100.00

(This section is not to be filled in by applicant)

STATE ENGINEER'S ENDORSEMENTS

1. *Jan. 27, 1961* Application received *by mail* in State Engineer's office by *...*
2. Priority of Application brought down to, on account of
3. *Jan. 27, 1961* Application fee, \$*5.50*, received by Rec. No. *02265*
4. *Mar. 10, 1961* Application *photostated* in book *7/11/32* page *357*, and indexed by *...*
5. *...* Application platted by *...*
6. *April 7, 1961* Application examined by *...*
7. Application returned, or corrected by office
8. Corrected Application resubmitted *over counter* to State Engineer's office.
9. *April 7, 1961* Application approved for advertisement by *...*
10. *June 16, 1961* Notice to water users prepared by *P. K. H.*
11. *June 27, 1961* Publication began; was completed *July 13, 1961*
Notice published in *San Juan Record, Monticello, Utah*
12. *June 27, 1961* Proof slips checked by *...*
13. Application protested by
14. *July 25, 1961* *Subscribed paid me 22-1016-22*
Hearing held by
15. Field examination by
16. *Sept 5, 1961* Application designated for *approval* *rejection* *...*
17. *Sept. 11, 1961* Application copied or photostated by *T.E.* proofread by
18. *Sept. 11, 1961* Application *approved* *rejected*
19. Conditions:
This Application is approved, subject to prior rights, as follows:
a. Actual construction work shall be diligently prosecuted to completion.
b. Proof of Appropriation shall be submitted to the State Engineer's office by *Feb. 28, 1963*
c.
20. Time for making Proof of Appropriation extended to
21. Proof of Appropriation submitted.
22. Certificate of Appropriation, No., issued

Wayne D. Criddle
Wayne D. Criddle State Engineer.

POOR COPY
Application No. *3273*

EXPLANATORY CONTINUED

The use of the applied for water for the planned pressure maintenance and secondary recovery operations will permit the recovery of substantial quantities of oil and gas which would otherwise not be recovered.

NOTICE TO APPLICANT

POOR COPY

All waters in this state, whether above or under the ground, are the property of the public, subject to all existing rights to the use thereof. No appropriation of the unappropriated public water may be made and no rights to the use thereof shall be recognized except Application for such appropriation first be made to the State Engineer.

The approval of this Application is not a Certificate of Appropriation. It is merely your authority to begin construction work, which must be prosecuted diligently to completion. To secure a Certificate of Appropriation under this Application, Proof of Appropriation must be submitted within the time limit allowed by the State Engineer. The amount of water for which Certificate will be issued will depend upon the amount of water actually put to a beneficial use, not to exceed, however, the amount of water specified in this Application. Proof of Appropriation must be made in accordance with the requirements of the law. For further information write the State Engineer.

*Lewis
Hawkins
file/SS*

October 13, 1961

AIRMAIL

Mr. Clair M. Senior
Senior & Senior
Attorneys at Law
10 Exchange Place
Salt Lake City, Utah

Re: Alternate or Additional Source of Water
for the Rutherford Unit, San Juan County, Utah

Dear Clair:

Herewith in triplicate is completed and signed application to the Utah State Engineer for additional and alternate points of diversion for water for water-flood purposes in the Rutherford Unit. I would appreciate it if you would handle this matter with the Water Engineer and, as diplomatically as possible, urge upon him the importance of expediting the matter as much as possible.

Having gotten these papers back from the Production Department too late to get a check for the filing fee, I would ask that you advance the fee and, upon being billed, I will send you the check.

If you need any additional information, please advise.

Very truly yours,

RMW:jd
Enclosures

R. M. Williams

cc - Mr. Shofner Smith ✓

3-12-61

Application for Permanent Change of Point of Diversion, Place and Nature of Use of Water STATE OF UTAH

Do not fill out this blank until you have read carefully and thoroughly understand the "Rules and Regulations" on the back hereof and all the notes in the body of it.

For the purpose of obtaining permission to permanently change the point of diversion, ~~place or nature of use of~~ (Strike out written matter not needed)

water right acquired by original Application No. 32773
(Give No. of Application, certificate of appropriation, title and date of Decree or other identification of right)
to that hereinafter described, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

- The name of the applicant is Phillips Petroleum Company
- The post-office address of the applicant is Bartlesville, Oklahoma
- †The flow of water which ~~has been or~~ was to have been used in second-feet is 8
- †The quantity of water which has been or was to have been used in acre-feet is XX
- †The water ~~has been or~~ was to have been used each year from January 1 to December 31 incl.
(Month) (Day) (Month) (Day)
- †The water has been or was to have been stored each year from XX to XX incl.
(Month) (Day) (Month) (Day)
- The drainage area to which source of supply belongs is (Leave blank)
- The direct source of supply is Underground water and subsurface flow of San Juan River
in San Juan County.
- †The point of diversion as described in the original Application ~~or the point at which the water has been diverted if~~ ^{are} situated at 1 point s in Section 5, T. 41S., R. 24E as more particularly set out in the original Application No. 32773.

- †The water involved ~~has been or~~ was to have been used for the following purposes:

Pressure maintenance and secondary recovery purposes

Total XX Acres.

NOTE—If for irrigation, give legal subdivision of land and total acreage which has been or was to have been irrigated. If for other purposes, give nature, place and extent of use or proposed use.

- †The point at which water has been or was to have been returned to the stream channel is situated as follows: XX

NOTE—The above space is to be filled in only when all or part of the water is returned to the natural stream or channel.

The Following Changes Are Proposed

- The flow of water to be changed in cubic feet per second is No change
- The quantity of water to be changed in acre-feet is XX
- The water will be used each year from January 1 to December 31 incl.
(Month) (Day) (Month) (Day)
- The water will be stored each year from XX to XX incl.
(Month) (Day) (Month) (Day)
- The point at which it is now proposed to divert the water is situated (See note) See explanatory

NOTE—The "point of diversion," or "point of return," must be located by course and distance or by rectangular distances with reference to some regularly established United States land corner or United States mineral monument if within a distance of six miles of either, or if a greater distance, to some prominent and permanent natural object.

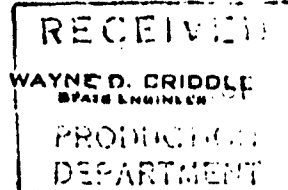
- The proposed diverting and conveying works will consist of wells and conveyance pipe as explained in original Application No. 32773
- The cross-section of the diverting channel will be. XXXXXXXXXX ☒
(Strike out ones not needed)
- The nature of the diverting channel will be: earth, wood, iron, concrete.
(Strike out the ones not needed)

†Strike out written matter not needed.



THE STATE OF UTAH
OFFICE OF STATE ENGINEER
SALT LAKE CITY

September 11, 1961



Phillips Petroleum Company
Bartlesville,
Oklahoma

Gentlemen:

RE: APPROVED APPLICATION NO. 32773

Enclosed find Approved Application No. 32773 . This is your authority to proceed with actual construction work which, under Sections 73-3-10 and 73-3-12, Utah Code Annotated, 1953, as amended, must be diligently prosecuted to completion. The water shall be put to beneficial use and proof of appropriation made to the State Engineer on or before ~~February 28, 1961~~ otherwise the application will lapse.

Failure on your part to comply with the requirements of the statutes may result in forfeiture of this application.

Yours truly,

Wayne D. Criddle

Wayne D. Criddle
STATE ENGINEER
STATE CAPITOL BUILDING
SALT LAKE CITY, UTAH

ADDRESS ALL COMMUNICATIONS TO:

js
Encl: Copy of approved application

APPLICATION APPROVED

NOTICE TO APPLICANT

The approval of this Application is not a certificate of change. It is merely your authority to begin construction work, which must be diligently prosecuted to completion. To secure a certificate of change under this Application proof of change must be submitted within the time limit allowed by the State Engineer. The amount of water for which certificate will be issued will depend upon the amount of water actually put to a beneficial use, not to exceed, however, the amount of water covered by the original right. For further information write the State Engineer.

RULES AND REGULATIONS

Applicants will save time and expense by familiarizing themselves with the law before making Applications.

If the reservoir is to be located on the channel of the source from which the water is to be appropriated, it should be so stated under explanatory, and—

1. The location of the impounding dam should be described in Paragraph 16.
2. The point where the released storage will be diverted from the natural stream should be described under explanatory in accordance with the note under Paragraph 16.

When the water is to be stored in other than the natural channel of the source from which it is to be appropriated, it should be so stated under explanatory, and—

1. The point of diversion from the supplying source should be described in Paragraph 16.
2. The intersection of the longitudinal axis of impounding dam and centerline of stream channel or drainage and a similar point where the released storage will be diverted from a natural channel should be described under explanatory in accordance with the note under Paragraph 16.

In all cases Paragraphs 17 to 27, incl., should describe the proposed diverting and carrying works, exclusive of natural channels, even if already constructed in whole or in part.

If it is proposed to collect the water of a number of springs or other sources at a common point, said point should be described as the point of collection in Paragraph 16, and the point of diversion from each source should also be described under explanatory in accordance with the note in Paragraph 16. The quantity of water sought from each source should be indicated under explanatory, the total equaling the quantity specified in Paragraphs 12 or 13. Where the source of supply is in reality a spring area, the point of diversion is the point where the water is collected; in such case the exterior boundary of the spring area must be described under explanatory by metes and bounds and located with reference to the same point as used in describing the point of collection and as outlined by the note under Paragraph 16.

No enlargement of an original water right may be made by a change Application, either as to quantity of water covered, period of use or otherwise.

When there are two or more coapplicants the Application must be accompanied by a power of attorney.

The applicant's permanent address should be given in Paragraph 2, and the State Engineer notified promptly of any change in address; otherwise applicant may lose rights initiated by Application by failing to receive notices sent from the State Engineer's office.

No Application or other paper pertaining to an Application will be marked received unless accompanied with the required filing fee.

Applications accepted and numbered by the State Engineer, when returned to applicant for correction or additions, must be amended with red ink. Erasures must not be made, but any matter may be eliminated by running a red line through it. Corrected Applications must be resubmitted to the State Engineer's office, within sixty days from the date of State Engineer's letter returning Application for correction; otherwise the priority of the right to change will be brought down to date corrected Application is resubmitted.

Applicants will be informed by the State Engineer's office when cost of publishing notice of Application is due, and must advance cost within sixty days after date of notice, otherwise Application will lapse.

Fees Required by Law Payable to State Engineer

For examining and filing Applications for change of point of diversion, place and nature of use.....	\$2.50
For approving and recording Applications for change of point of diversion, place and nature of use.....	\$2.50
For filing written proof of change.....	\$1.00
For examining maps, profiles and drawings that are part of the proof of change.....	\$5.00
For issuing certificate of change.....	\$1.00

NOTE—In addition to the above fees applicants must pay the cost of publication of "Notice to Water Users" concerning the proposed change.

20. The length of the diverting channel, exclusive of laterals, will be 15,000 feet
(If an existing channel is used give only the length of that part used under this Application)
21. The top width of the diverting channel will be (if a ditch) XX feet
22. The bottom width of the diverting channel will be (if a ditch) XX feet
23. The depth of water in the diverting channel will be (if a ditch) XX feet
24. The width of diverting channel will be (if a flume) XX feet
25. The depth of water in the diverting channel will be (if a flume) XX feet
26. The diameter of the diverting channel will be (if a pipe) 2.75 inches inches
27. The grade of the diverting channel will be 21.4 feet per thousand
28. The point at which it is proposed to return the water is situated (See note under 16) XX
29. The water is to be used for the same purposes as specified in the
original Application No. 32773

NOTE—If for irrigation, give legal subdivisions of land to be irrigated. If for other purposes, give place and extent of proposed use. If for power give number, size and make of wheels, head under which they will operate, total H. P. to be developed and place where power will be used.

30. The character of the soil to be irrigated is.....XX.....; subsoil.....XX.....
NOTE—Number 30 is to be filled in only when proposed change is for irrigation.
31. If paragraph 12 designates that only part of the right described in paragraph 1 to 11 inclusive is to be changed, designate the status of the water so affected by this change as to its being abandoned or used as heretofore.

EXPLANATORY

NOTE—Paragraph 13 on page 1 must not be used except when storage is contemplated; in such case Paragraph 14 should indicate the time in each year during which the water will be released and used. The lands to be inundated by the reservoir must be described in the space below this note as nearly as may be and by government subdivisions if upon surveyed land, and the area of the reservoir when at full stage should be given in acres; the height of the impounding dam must also be specified.

The following additional facts are set forth in order to define more clearly the full purpose of the proposed change:

The original Application No. 32773 specified _____ points of diversion situate in Section 5, T. 41S., R. 24E., San Juan County, Utah, and bears the following notation: "Diversion will be from one or more or all of the above diversion points. Water from the several diversion points will be commingled in conveyance works or in use. The applicant proposes to divert water from the San Juan River partly or wholly by means of infiltration wells, pits or horizontal galleries, dug in the alluvial fill within the stream valley. The exact number, depth, diameter, spacing and yield of such wells, pits or galleries will be determined during the project construction; however, the aggregate withdrawal rate will not exceed that specified." The purpose of this Change Application is to secure approval of additional alternative points of diversion as hereinafter specified without waiver of any rights under the original Application and without increase in the quantity of water applied for or the ultimate objective and purpose of the original Application.

See "Explanatory" continued on attached sheet.

PHILLIPS PETROLEUM COMPANY

Signature of Applicant.

BY Vice-President of Production

EXPLANATORY - contd. from printed form.

The additional alternative points of diversion from the source are in Section 3, T. 41S., R. 24E., San Juan County, Utah, situate at points as follows:

<u>Diversion Point</u>	<u>From West Line</u>	<u>From North Line</u>	<u>Subdivision</u>
1	100'	1780'	SW $\frac{1}{2}$ NW $\frac{1}{2}$
2	365'	1780'	"
3	630'	1770'	"
4	900'	1620'	"
5	1170'	1620'	"
6	1400'	1600'	SE $\frac{1}{2}$ NW $\frac{1}{2}$
7	1530'	1600'	"
8	1900'	1600'	"
9	2150'	1620'	"
10	2400'	1700'	"
11	2640'	1750'	"
12	2900'	1810'	SW $\frac{1}{2}$ NE $\frac{1}{2}$
13	3180'	1900'	"
14	3400'	1950'	"
15	3650'	2050'	"
16	3870'	2225'	"
17	4100'	2450'	SE $\frac{1}{2}$ NE $\frac{1}{2}$
18	4250'	2700'	NE $\frac{1}{2}$ SE $\frac{1}{2}$
19	4380'	2975'	"
20	4420'	3250'	"

Copied for
C. M. Bole
4-18-62 EFL:m

THE STATE OF UTAH
OFFICE OF THE STATE ENGINEER
SALT LAKE CITY

March 26, 1962

RECEIVED
APR 2 - 1962
PRODUCTION
DEPARTMENT

Phillips Petroleum Company
Bartlesville,
Oklahoma

Gentlemen:

RE: APPROVED APPLICATION NO. a-4025

Enclosed find Application No. a-4025 which has been approved by me. This approved Application is your authority to proceed with actual construction work which, under Sections 73-3-10 and 73-3-12, Utah Code Annotated 1953, as amended, must be diligently prosecuted to completion. The water shall be put to beneficial use and proof of appropriation filed with the State Engineer, as provided in the original application as amended by this approved change Application.

Failure on your part to comply with the requirements of the statutes may result in forfeiture of your Application.

Yours truly,

Wayne D. Criddle

Wayne D. Criddle

ADDRESS ALL COMMUNICATIONS TO:

STATE ENGINEER
403 STATE CAPITOL
SALT LAKE CITY, UTAH

js
Encl: Copy of approved application

CHANGE APPLICATION APPROVED

(Form for pending original Application)



THE STATE OF UTAH
OFFICE OF STATE ENGINEER

SALT LAKE CITY
October 30, 1961

WAYNE D. CRIDDLE
STATE ENGINEER

Issue Date: October 30, 1961
Expiration Date: April 30, 1962

Phillips Petroleum Company
c/o Senior and Senior, Attorneys
#10 Exchange Place
Salt Lake City 11, Utah

Gentlemen:

RE: APPROVED APPLICATION NO. 32773 AND
CHANGE APPLICATION NO. a-4025

This is to acknowledge receipt of your Permanent Change Application No. a-4025, which proposes to change the point of diversion of 8.0 sec.-ft. of water initiated by Application No. 32773. The water was to have been diverted from ten 12.75-inch O.D. wells located within S $\frac{1}{2}$ N $\frac{1}{2}$ NE $\frac{1}{4}$ and SE $\frac{1}{4}$ NE $\frac{1}{4}$ of Sec. 5, T41S, R24E, SLB&M. It is now proposed to divert the 8.0 sec.-ft. of water from a total of 11 wells 12.75 inches O.D. between 35 and 50 ft. deep, ten of these being the same as heretofore described and thirty-one wells to be located within NW $\frac{1}{4}$ Sec. 3, S $\frac{1}{2}$ Sec. 4, NW $\frac{1}{4}$ Sec. 5, T41S, R24E, SLB&M. The water is to be used for pressure maintenance and secondary recovery purposes as heretofore.

You have requested permission to proceed immediately with the drilling of these additional 11 wells. This letter grants you that privilege with the understanding that all risks as regards water rights are being assumed by you.

If other than new standard casing is to be used in these wells, such casing must be inspected and approved by a representative from this office. All wells must be so constructed and finished that they may be readily controlled at all times, in order to prevent waste of underground water. Wells must be drilled and cased in such a manner that will prevent the infiltration of contaminated water into them.

The driller must be bonded and have a current permit from the State Engineer. Before commencing, he must give this office notice as to the day he will begin drilling. Also, within 30 days after the well has been completed or abandoned, he must file a well driller's report for each well. These reports are to contain accurate and complete information regarding the work done and become part of the files in this office pertaining to the above-numbered wells.

This is permission for a licensed driller to begin drilling your wells.

Please note that the expiration date of this letter is April 30, 1962.

Yours truly,

Wayne D. Criddle
Wayne D. Criddle
STATE ENGINEER

RECEIVED

ds

1961

SE

SENIOR

POOR COPY

December 2, 1965

Ratherford Unit, San Juan County, Utah -
Application No. 32773 - Request for Extension
of Time to Make Proof of Appropriation

Mr. R. M. Williams (2)
Legal Department

Phillips' Application No. 32773 to the State of Utah for appropriation of water to be used in the Ratherford Unit project was approved on September 5, 1961. One condition of the approval was that a proof of appropriation be submitted by February 28, 1963. Subsequently an extension was granted and the proof of appropriation is now due on February 28, 1966. It is not possible to determine at this time the quantity of water that will ultimately be required and this is to request your assistance in obtaining an additional extension of time before it is necessary to file the proof.

Attached is a copy of Mr. C. M. Boles' letter dated November 23, 1965, which transmits a copy of an unexecuted application for an extension of time for filing the proof from February 28, 1966, to February 28, 1971. Please examine the application as to form and, if it is acceptable, forward it to Mr. J. E. Chrisman, who will arrange for its execution. If it is your opinion that the legal firm of Senior and Senior should file the application, as was done previously, please so advise and the executed application will be returned to you.

Stofner Smith

JEC:gm
Attach.

cc: Messrs. C. W. Corbett
Attn. T. L. Osborne
C. M. Boles

12/8/65
HSE

HSE

fb



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

July 9, 1985

Phillips Oil Company
P. O. Box 2920
Casper, Wyoming 82602

Gentlemen:

Re: Well No. Ratherford Unit 7-33 - NW SE Sec. 7, T. 41S, R. 24E
2105' FSL, 1876' FEL - San Juan County, Utah

Approval to drill the above-referenced oil well is hereby granted in accordance with Section 40-6-18, Utah Code Annotated, as amended 1983; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

In addition, the following actions are necessary to fully comply with this approval:

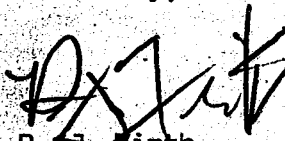
1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.
4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.

Page 2
Phillips Oil Company
Well No. Ratherford Unit 7-33
July 9, 1985

5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31167.

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

as

Enclosures

cc: Branch of Fluid Minerals
Bureau of Indian Affairs

DIVISION OF OIL, GAS AND MINING

SPODDING INFORMATION

API #43-037-31167

NAME OF COMPANY: PHILLIPS PETROLEUM COMPANYWELL NAME: RATHERFORD UNIT 7-33SECTION NW SE TOWNSHIP 41S RANGE 24E COUNTY San JuanDRILLING CONTRACTOR L. C. JonesRIG # SPUDDED: DATE 2-25-86TIME 9:00 AMHOW Dry Hole SpudderDRILLING WILL COMMENCE 2-26-86 - Energy Search - Rig #2REPORTED BY David JonesTELEPHONE 651-3479DATE 2-27-86 SIGNED AS

RECEIVED
MAR 07 1986UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY DIVISION OF
OIL, GAS & MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☒ gas well ☐ other ☐2. NAME OF OPERATOR
Phillips Petroleum Company (Attn: RMR Drlg)3. ADDRESS OF OPERATOR
8055 E. Tufts Ave. Pkwy., Denver, CO 802374. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2105' FSL/1876' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

SUBSEQUENT REPORT OF:

☐
☐
☐
☐
☐
☐
☐
☐
☐
☐5. LEASE
14-20-603-368
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo
7. UNIT AGREEMENT NAME
SW-I-4192
8. FARM OR LEASE NAME
Ratherford Unit
9. WELL NO.
#7-33
10. FIELD OR WILDCAT NAME
Greater Aneth
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 7-T41S-R24E
12. COUNTY OR PARISH
San Juan
13. STATE
Utah
14. API NO.
43-037-31167
15. ELEVATIONS (SHOW DF, KDB, AND WD)
5091' ung. GL

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Drilled 17-1/2" conductor hole to 124' G.L. on 2-25-86. Ran 124' 13-3/8" 54.5# K-55 Buttress casing. Set at 124', cemented with 177 cu.ft. (150 sx) Class "B" cement to surface.

/Spudded well 2-26-86 with Energy Search Rig #2. Drilled 12-1/4" hole to 1562'. Ran 9-5/8" 40# L-80 Buttress casing, set at 1562.5'. Cemented with 731 cu.ft. (395 sx) Halco Light cement; tailed with 354 cu.ft. (300 sx) Class "B" cement. Circulated to surface, fell back 25'. Job complete 2-28-86.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Michael Burt TITLE Drilling Manager DATE March 5, 1986

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:6-BLM, Farmington, NM
2-Utah O&GCC, SLC
1-Well File (RC)
1-Casper Office
1-J. Weichbrodt1-Chevron USA, Inc.
1-Texaco, Inc.
1-Shell Oil Co.

*See Instructions on Reverse Side

1-Mobil Oil Corp.

NAME	ACTION CODE(S)	INTL
NORM		7
TAMI	3A-SPUD	foc
VICKY	1 SPUD	
CLAUDIA		
STEPHANE		
CHARLES		
RULA		
MARY ALICE		
CONNIE		
MILLIE		
PAM	FILE	

Required Action Code

1. Data Entry
2. Filming
3. Posting
 - a. Card Index
 - b. File Label
 - c. Lists
4. Bonding Verification
5. Other (See Norm)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ gas ☐
well well other2. NAME OF OPERATOR
Phillips Petroleum Company (Attn: RMR Drlg)3. ADDRESS OF OPERATOR
8055 E. Tufts Ave., Pkwy., Denver, CO 80237

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 2105' FSL, 1876' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input type="checkbox"/>
(other)	<input type="checkbox"/>	<input type="checkbox"/>

5. LEASE
14-20-603-3686. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo7. UNIT AGREEMENT NAME
SW-I-41928. FARM OR LEASE NAME
Ratherford Unit9. WELL NO.
#7-3310. FIELD OR WILDCAT NAME
Greater Aneth11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 7-T41S-R24E12. COUNTY OR PARISH
San Juan13. STATE
Utah14. API NO.
43-037-3116715. ELEVATIONS (SHOW DF, KDB, AND WD)
5091 ung. GL

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Drilled 8-1/2" hole to 5886'. Ran 5873' 7" 23# and 32# K-55 and L-80, ST&C and LT&C casing, set at 5886'. Cemented with 1122 cu.ft. (550 sx) Halco Light; tailed with 360 cu.ft. (300 sx) Class B w/18% salt. Pressure tested casing to 2000 psi. Job complete 3-11-86. Plug back total depth 5855'. TOC 2000±'.

RECEIVED
MAR 19 1986DIVISION OF
OIL, GAS & MINING

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Shelley Burt TITLE Drilling Manager DATE March 17, 1986

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

6-BLM, Farmington, NM

2-Utah O&GCC, SLC

1-Well File (RC)

1-Casper Office

1-J. Weichbrodt

1-Chevron USA, Inc.

1-Texaco, Inc.

1-Shell Oil Co.

*See Instructions on Reverse Side

1-Mobil Oil Corp.

NAME	ACTION CODE(S)	INTL
NORM		<i>2</i>
TAMI		
VICKY		
CLAUDIA		
STEPHANE		
CHARLES		
RULA		
MARY ALICE		
CONNIE		
MILLIE		
PAM	<i>FILE</i>	<i>DK.</i>

Required Action Code

1. Data Entry
2. Filming
3. Posting
 - a. Card Index
 - b. File Label
 - c. Lists
4. Bonding Verification
5. Other (See Norm)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

10

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 14-20-603-368	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. REMVR. <input type="checkbox"/> Other <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo	
2. NAME OF OPERATOR Phillips Petroleum Company		7. UNIT AGREEMENT NAME SW-I-4192	
3. ADDRESS OF OPERATOR P. O. Box 2920, Casper, Wyoming 82602		8. FARM OR LEASE NAME Ratherford Unit	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements). At surface 2105' FSL & 1876' FEL, NW SE At top prod. interval reported below At total depth		9. WELL NO. 7-33	
14. PERMIT NO. API #43-037-31167		DATE ISSUED APR 25 1986	
15. DATE SPUDDED 2/26/86		16. DATE T.D. REACHED 3/9/86	
17. DATE COMPL. (Ready to prod.) 3/26/86		18. ELEVATIONS (DF, RKB, RT, OR, ETC.)* GR 5017', RKB 5028.5'	
19. ELEV. CASINGHEAD --		20. TOTAL DEPTH, MD & TVD 5910'	
21. PLUG, BACK T.D., MD & TVD 5910'		22. IF MULTIPLE COMPL., HOW MANY* --	
23. INTERVALS DRILLED BY --		ROTARY TOOLS 0 - 5910'	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 5844'-5870' Cased Hole & 5886'-5910' Open Hole Desert Creek Zone I		25. WAS DIRECTIONAL SURVEY MADE No	
26. TYPE ELECTRIC AND OTHER LOGS RUN DIL, MSFL/GR & Cased Hole Neutron, CBL, VDL, GR		27. WAS WELL CORED No	
28. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
13-5/8"	54.5#	124'	17-1/2"
9-5/8"	40#	1562'	12-1/4"
7"	23# & 32#	5886'	8-1/2"
CEMENTING RECORD			
177 cu.ft. Class B			
731 cu.ft. Howco Lite and			
1122 cu.ft. Howco Lite and			
AMOUNT PULLED			
--			
354 cu.ft. Class B			
360 cu.ft. Class B			
29. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
--	--	--	--
30. TUBING RECORD			
SIZE	DEPTH SET (MD)	PACKER SET (MD)	
2-7/8"	5688'	--	
31. PERFORATION RECORD (Interval, size and number)			
5844-5850', 4 SPF, 4" HSC Gun, 24 shots			
5864-5870', 4 SPF, 4" HSC Gun, 24 shots			
5886-5910', 24' Open Hole			
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
5844-5910'		Pumped 1600 gal 28% HCL Acid w/	
the following additives - 1 gal/1000 A-250		corrosion inhibitor, 3 gal/1000 W-802 non-	
emulsifier, 2 gal/1000 F-801 fines suspender and			
33. PRODUCTION (CONTINUED ON BACK)			
DATE FIRST PRODUCTION 3/26/86		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing	
WELL STATUS (Producing or shut-in) Producing			
DATE OF TEST 3/29/86	HOURS TESTED 24	CHOKE SIZE 24/64"	PROD'N. FOR TEST PERIOD --
OIL—BBL. 714	GAS—MCF. 357	WATER—BBL. 6	GAS-OIL RATIO 500
FLOW. TUBING PRESS. 115#	CASING PRESSURE --	CALCULATED 24-HOUR RATE --	OIL—BBL. 714
GAS—MCF. 357	WATER—BBL. 6	OIL GRAVITY-API (CORR.) 40.0	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold			
35. LIST OF ATTACHMENTS None			
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED D. C. GILL		TITLE Area Manager	
DATE April 23, 1986		860507 cp	

*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
ACID TREATMENT CONTINUED -				LOG TOPS		
and 6 gal/1000 U-42 iron agent into open hole (5886-5910'). Well flowed back fluid. Flowed well overnite. Killed well. Broke down each ft of perfs (5844-5850' & 5864-5870') with 150 gal 28% HCL Acid w/additives as above. Acidized entire interval (5844-5910') with 3288 gal 28% HCL Acid with additives as above (this 3288 gal of acid was diverted by a gelled diverter containing rock salt).				Shinarump DeChelly Hermosa Ismay Desert Creek Zone I	2616 2947 4842 5670 5836	
Distribution:						
4 - BLM, Farmington, NM						
2 - Gran O&G CC, Salt Lake City, UT						
1 - The Navajo Nation, Window Rock, AZ						
1 - M. Williams, B'Ville						
1 - L. R. Williamson r) G. W. Berk, Denver						
1 - T. L. Carten r) P. Bertuzzi, Denver						
1 - J. B. Lindemood, Denver						
1 - D. L. Kennedy, Denver						
17 - W. I. Owners						
1 - J. Weichbrodt, Cortez						
1 - File RC						

38. GEOLOGIC MARKERS

Mobil Oil Corporation

P.O. BOX 5444

DENVER, COLORADO 80217-5444

May 14, 1986

RECEIVED
MAY 16 1986

DIVISION OF
OIL, GAS & MINING

Utah Board of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attn: R. J. Firth
Associate Director

SUPERIOR OIL COMPANY MERGER

Dear Mr. Firth:

On September 20, 1984, The Superior Oil Company (Superior) became a wholly owned subsidiary of Mobil Corporation. Since January 1, 1985, Mobil Oil Corporation (MOC), another wholly owned subsidiary of Mobil Corporation, has acted as agent for Superior and has operated the Superior-owned properties.

On April 24, 1986, Superior was merged with Mobil Exploration and Producing North America Inc. (MEPNA), which is also a wholly owned subsidiary of Mobil Corporation. MEPNA is the surviving company of the merger.

This letter is to advise you that all properties held in the name of Superior will now be held in the name of MEPNA; and that these properties will continue to be operated by MOC as agent for MEPNA.

Attached is a listing of all wells and a separate listing of injection-disposal wells, Designation of Agent and an organization chart illustrating the relationships of the various companies. If you have any questions or require additional documentation of this merger, please feel free to contact me at the above address or (303) 298-2577.

Very truly yours,



CNE/rd
CNE8661

R. D. Baker
Environmental Regulatory Manager

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPL
(Other instructions
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

1. ☐ OIL WELL ☒ GAS WELL ☐ OTHER JAN 28 1988

2. NAME OF OPERATOR

Phillips Petroleum Company

DIVISION OF
OIL, GAS & MINING

3. ADDRESS OF OPERATOR

152 North Durbin, 2nd Floor, Casper, WY 82601

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

2105' FSL & 1876' FEL, NW SE

14. PERMIT NO.

43-037-31167

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

GR5017' RKB 5028.5'

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-368

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO 020826

7. UNIT AGREEMENT NAME

SW-I-4192 POW-DSCR

8. FARM OR LEASE NAME

Ratherford Unit

9. WELL NO.

7-33

10. FIELD AND POOL, OR WILDCAT

Greater Aneth

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

Sec. 7-T41S-R24E

12. COUNTY OR PARISH 13. STATE

San Juan Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other)

(Other)

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

It is proposed to perforate the Ismay Formation and acidize the Ismay and Desert Creek Formations with 5000 gallons of 28% HCl acid.

A 10'x8'x6' fenced pit will be constructed on location in a previously disturbed area. Upon completion of the workover, the pit will be dried and recovered.

5 - BLM, Farmington, NM
2 - Utah O&G CC, Salt Lake City, Utah
1 - P. J. Konkell
1 - J. R. Reno
1 - File - RC
1 - Mike Williams, 1370 G, POB

18. I hereby certify that the foregoing is true and correct

SIGNED

D. C. Gill

TITLE Area Manager

DATE January 20, 1988

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate
(Other instruction on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. ☒ OIL WELL ☐ GAS WELL ☐ OTHER

2. NAME OF OPERATOR
Phillips Petroleum Company

3. ADDRESS OF OPERATOR
P. O. Box 1150, Cortez, CO 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State law or regulation. See also space 17 below.)
At surface
2105' FSL & 1876' FEL, NW SE

14. PERMIT NO.
43-037-31167

15. ELEVATIONS (Show whether OF, RT, GR, etc.)
GR 5017' RKB 5028.5'

5. LEASE DESIGNATION AND SERIAL NO
14-20-603-368

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
SW-I-4192

8. FARM OR LEASE NAME
Ratherford Unit

9. WELL NO.
#7-33

10. FIELD AND POOL, OR WILDCAT
Greater Aneth

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 7-T41S-R24E

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other)

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

May 10, 1988 through May 25, 1988

Move in and Rig up Well Service Unit on 5/10/88. POOH with production equipment. RIH with packer, set at 5802'. Acidize with 3500 gal. 28% acid. Swabbed back load. Selectively perforate Ismay formation 5790' - 5796', 5800' - 5806'. Acidize Ismay perfs with 1800 gal. 28% acid. Swab back load. RIH with production equipment. Well on production out of Ismay formation. Release rig 5/24/88.

Production Before: 1 BOPD, 1 BWPD

Production After: 99 BOPD, 0 BWPD

4-BLM

2-Utah O & G

1-M. Williams, Bartlesville

1-R. J. Rundt (r) Engineering

1-D. C. Gill (r) Denver Files

1- Texaco, U.S.A., Casper, WY

1-Cortez Office - RC

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE District Superintendent DATE 6-6-88

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-1135
Expires September 30, 1990

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.

14-20-603-355

6. If Indian, Allottee or Tribe Name

Navajo

7. If Unit or CA, Agreement Designation

SW-I-4192

8. Well Name and No.

Ratherford Unit #7-33

9. API Well No.

43-037-31167

10. Field and Pool, or Exploratory Area

Greater Aneth

11. County or Parish, State

San Juan, Utah

SUBMIT IN TRIPLICATE

RECEIVED
JUN 25 1990

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Phillips Petroleum Company

3. Address and Telephone No.

P. O. Box 1150, Cortez, CO 80321

DIVISION OF
OIL, GAS & MINING

(303) 565-3426

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2105' FSL & 1876' FEL, NW SE, Sec. 7-T41S-R24E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection

Vent Produced Gas
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

This well was tested through a portable tester from 6/19/90 to 6/22/90. The produced gas of approximately 23 MCFD was flared.

The gas flaring was verbally approved by Kenny Howell on 6/18/90.

OIL AND GAS	
DPN	RJF
1-JFB ✓	GLH
DIS	SLB
2- MICROFILM ✓	
2- FILE	

- 3 - BLM, Farmington
- 2 - Utah O&GCC
- 1 - Cortez, PPCo
- 1 - Casper, PPCo

14. I hereby certify that the foregoing is true and correct

Signed S. H. Oden S, H. Oden Title District Superintendent Date June 22, 1990

(This space for Federal or State office use)

Approved by _____ Title _____
Conditions of approval, if any:

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 7-6-90
BY: John R. Bays

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

APR 11 1991

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

DIVISION OF

SUNDRY NOTICES AND REPORTS ON WELLS GAS & MINING

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. 14-20-603-355
2. Name of Operator Phillips Petroleum Company	6. If Indian, Allottee or Tribe Name Navajo Tribal
3. Address and Telephone No. 300 W. Arrington, Suite 200, Farmington, NM 87401 (505) 599-3412	7. If Unit or CA, Agreement Designation SW-I-4192
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Unit J, 2105' FSL & 1876' FEL Sec. 7, T41S, R24E	8. Well Name and No. Ratherford Unit #7-33
	9. API Well No. 43-037-31167 <i>pow</i>
	10. Field and Pool, or Exploratory Area Greater Aneth
	11. County or Parish, State San Juan County, Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Acid Clean-Up</u>
	<u>Return to prod.</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

March 26, 1991 Through April 1, 1991

MIRU well service unit 3-26-91. Pulled rods and pump. ND WH and NU BOP. COOH w/tbg. TIH hole w/bit through perfs. COOH and TIH w/R-3 pkr. Couldn't get through tight place in csg @ 2027'. COOH, PU 7" csg scraper and bit @ 2027'. Forced scraper through @ 3020'. COOH and TIH w/prod. tbg to 5790'. RU Western and tested lines to 3000 psi. Pumped 1250 gal 15% HCL w/additives, flushed tbg w/80 bbls water, flushed csg w/80 bbls water. RD Western. RU swabbing equipment. Fluid level too low to swab back. ND BOP, NU WH. Ran rods & pump, MO well service, and returned well to production 4-1-91.

Test Prior to Acid Clean-Up - 50 BOPD, 147 BWPD

Test After Acid Clean-Up - 31 BOPD, 293 BWPD

cc: 5 - BLM, 2 - Utah O&GCC, 1 - EPA, 1 - N. Anstine, 1 - V.S. Shaw, 1 - Chieftain,
1 - Mobil Oil, 1 - Texaco, 1 - Chevron, 1 - PPCO, Houston, 1 PPCO, Farmington

14. I hereby certify that the foregoing is true and correct

Signed L. E. Robinson

Title Sr. Drilling & Production Engr.

Date 4-8-91

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

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*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Phillips Petroleum Company

3. Address and Telephone No.

300 W. Arrington, Suite 200, Farmington, NM 87401 (505) 599-3412

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Unit J, 2105' FSL & 1876' FEL
Sec. 7, T41S, R24E

5. Lease Designation and Serial No.

14-20-603-355

6. If Indian, Allottee or Tribe Name

Navajo Tribal

7. If Unit or CA, Agreement Designation

SW-I-4192

8. Well Name and No.

Ratherford Unit #7-33

9. API Well No.

43-037-31167

10. Field and Pool, or Exploratory Area

Greater Aneth

11. County or Parish, State

San Juan, NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other _____	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Acid Clean-Up March 26, 1991 Through April 1, 1991

Test Prior to Acid Clean-Up - 0 BOPD, 0 BWPD

Test After Acid Clean-Up - 34 BOPD, 22 BWPD

RECEIVED

MAY 08 1991

DIVISION OF
OIL GAS & MINING

CORRECTED COPY

cc: 5 - BLM, 2 - Utah O&GCC, 1 - EPA, 1 - N. Anstine, 1 - V.S. Shaw, 1 - Chieftain,
1 - Mobil Oil, 1 - Texaco, 1 - Chevron, 1 - PPCO, Houston, 1 - PPCO, Farmington

14. I hereby certify that the foregoing is true and correct

Signed L. E. Robinson

Title Sr. Drlg. & Prod. Engr.

Date 5-3-91

(This space for Federal or State office use)

Approved by _____

Title _____

Date _____

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993
RECEIVED
BLM
14-20-603-368

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Phillips Petroleum Company

3. Address and Telephone No.

300 W. Arrington, Suite 200, Farmington, NM 87401 (505) 399-3412

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Unit J, 2105' FSL & 1876' FEL
Sec. 7, T41S, R24E

Indian, Allottee or Tribe Name

Navajo Tribal

7. If Unit or CA, Agreement Designation

SW-I-4192

8. Well Name and No.

Ratherford Unit #7-33

9. API Well No.

43-037-31167

10. Field and Pool, or Exploratory Area

Greater Aneth

11. County or Parish, State

San Juan County, Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Acid Clean-Up

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

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Test Prior to Acid Clean-Up - 50 BOPD, 147 BWPD
Test After Acid Clean-Up - 31 BOPD, 293 BWPD

cc: 5 - BLM, 2 - Utah O&GCC, 1 - EPA, 1 - N. Anstine, 1 - V.S. Shaw, 1 - Chieftain,
1 - Mobil Oil, 1 - Texaco, 1 - Chevron, 1 - PPCO, Houston, 1 PPCO, Farmington

14. I hereby certify that the foregoing is true and correct

Signed

L. E. Robinson

Title

Sr. Drilling & Production Engr.

Date

4-8-91

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

MAY 1 1991

FARMINGTON RESOURCE AREA

BY

SM

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

OPERATOR

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
Phillips Petroleum Company

3. Address and Telephone No.
300 W. Arrington, Suite 200, Farmington, NM 87401 (505) 599-3412

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Unit J, 2105' FSL & 1876' FEL
Sec. 7, T41S, R24E

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.
14-20-603-355

6. If Indian, Allottee or Tribe Name
Navajo Tribal

7. If Unit or CA, Agreement Designation
SW-I-4192

8. Well Name and No.
Ratherford Unit #7-33

9. API Well No.
43-037-31167

10. Field and Pool, or Exploratory Area
Greater Aneth

11. County or Parish, State
San Juan, NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Acid Clean-Up March 26, 1991 Through April 1, 1991

Test Prior to Acid Clean-Up - 0 BOPD, 0 BWPD
Test After Acid Clean-Up - 34 BOPD, 22 BWPD

RECEIVED

JUN 14 1991

DIVISION OF
OIL GAS & MINING

CORRECTED COPY

RECEIVED
PLM
JUN 14 1991 2:38
OIL GAS & MINING

cc: 5 - BLM, 2 - Utah O&GCC, 1 - EPA, 1 - N. Anstine, 1 - V.S. Shaw, 1 - Chieftain,
1 - Mobil Oil, 1 - Texaco, 1 - Chevron, 1 - PPCO, Houston, 1 - PPCO, Farmington

14. I hereby certify that the foregoing is true and correct

Signed L. E. Robinson

Title Sr. Drlg. & Prod. Engr.

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

5-3-91
DATE FOR REVIEW

JUN 14 1991

FARMINGTON RESOURCE

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*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.

SUBMIT IN TRIPLICATE

RECEIVED

AUG 20 1992

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Phillips Petroleum Company

3. Address and Telephone No.

5525 Hwy. 64 NBU 3004, Farmington, NM 87401 (505) 599-3412

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Unit J, 2105' FSL & 1876' FEL
Section 7, T41S, R24E

5. Lease Designation and Serial No.

14-20-603-355

6. If Indian, Allottee or Tribe Name

Navajo Tribal

7. If Unit or CA, Agreement Designation

Ratherford Unit
SW-I-4192

8. Well Name and No.

Ratherford Unit #7-33

9. API Well No.

43-037-31167

10. Field and Pool, or Exploratory Area

Greater Aneth

11. County or Parish, State

San Juan, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other Perf & Frac	<input type="checkbox"/> Dispose Water
	Ismay & Zone I	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

7-27-92 thru 8-12-92

MIRU. Pull rods & tubing. Set CIBP @ 5875'. Set Pkr @ 5835'. Frac Zone #1 5488'-70' w/pkr set @ 5835'. Frac down 3-1/2" tbg w/700 bbls gel pad, max rate 27 BPM, max press. 5200 psi. Ramped from 1-9 ppg, 20/40 Ottawa sand 46698 lbs, max rate 27 BPM, max press 7500 psi. Circ hole clean w/coil tbg. COOH w/pkr. Ran GR-CL. Wireline set CIBP @ 5835'. Perforate selected intervals 5702'-5817' using 4" guns, 2 spf. Set pkr @ 5595'. Acidize perfs 5702'-5817' w/126 bbls 15% HCl, max rate 10 BPM, max press 4935 psi. Frac Ismay 5702'-5817' w/pkr set @ 5595'. Frac 3-1/2" tubing w/894 bbls gel pad, max rate 25 BPM, max press. 6926 psi. Ramped from 2-4.8 ppg, 20/40 Ottawa sand 21,497 lbs, max rate 25 BPM. Flowed well back on 1/4" choke, 3000 psi - 2000 psi, 1/2" choke 2000 psi - 572 psi, 2" 572 - 0 psi. Swabbed well. Rec. 135 bbls of gel. Release pkr, POOH & laid down 3-1/2" tbg. GIH w/2-7/8" tbg & bit. Csg collapsed @ 5772', cannot get through. TIH w/2-7/8" production string @ 5746'. Run pump & rods. Rig down & release rig @ 6:00 PM. Place well on production @ 5:30 PM on 8/12/92.

14. I hereby certify that the foregoing is true and correct

Signed R. E. Robinson

Title Sr. Drlg. & Prod. Engr.

Date 8-17-92

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

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*See Instruction on Reverse Side

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

Page 1 of 10

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

P J KONKEL
PHILLIPS PETROLEUM COMPANY
5525 HWY 64 NBU 3004
FARMINGTON NM 87401

RECEIVED

AUG 16 1993

ACCOUNT NUMBER: N0772

REPORT PERIOD (MONTH/YEAR):

6 / 93

DIVISION OF
OIL, GAS & MININGAMENDED REPORT ☐ (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
#21-23								
4303713754	06280	41S 24E 21	DSCR	POW	29	1374	883	58
#3-44								
4303715031	06280	41S 24E 3	DSCR	POW	30	111	94	2905
#3-14								
4303715124	06280	41S 24E 3	DSCR	POW	30	67	23	302
#9-12								
4303715126	06280	41S 24E 9	DSCR	POW	30	112	654	17363
#9-14								
4303715127	06280	41S 24E 9	DSCR	POW	30	201	315	423
#28-12								
4303715336	06280	41S 24E 28	PRDX	POW	29	112	47	2428
#29-12								
4303715337	06280	41S 24E 29	PRDX	POW	29	56	0	672
#29-32								
4303715339	06280	41S 24E 29	DSCR	POW	29	1402	287	2224
#29-34								
4303715340	06280	41S 24E 29	DSCR	POW	29	757	48	0
#30-32								
4303715342	06280	41S 24E 30	DSCR	POW	29	588	1049	3744
#3-12								
4303715620	06280	41S 24E 3	DSCR	POW	30	268	11	363
#9-34								
4303715711	06280	41S 24E 9	DSCR	POW	30	45	46	9800
#10-12								
4303715712	06280	41S 24E 10	DSCR	POW	30	45	23	1088
TOTALS						5138	3480	41370

COMMENTS: Effective July 1, 1993, Phillips Petroleum Company has sold its interest in the
 Ratherford Unit to Mobil Exploration and Producing U.S., Incorporated, P. O. Box
 633, Midland, Texas 79702. Mobil assumed operations on July 1, 1993.

I hereby certify that this report is true and complete to the best of my knowledge.

Date: 8/11/93

Name and Signature: PAT KONKEL

Pat Konkell

Telephone Number: 505 599-3452

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

Page 1 of 1

MONTHLY OIL AND GAS DISPOSITION REPORT

OPERATOR NAME AND ADDRESS:

Sheffield~~BRIAN BERRY~~~~MOBIL~~~~POB 219031 1807A RENTW~~~~DALLAS TX 75221-9031~~ *P.O. DRAWER G**CORTEZ, CO. 81321*UTAH ACCOUNT NUMBER: N7370REPORT PERIOD (MONTH/YEAR): 7 / 93AMENDED REPORT ☐ (Highlight Changes)**931006 updated.
Jc*

ENTITY NUMBER	PRODUCT	GRAVITY	BEGINNING INVENTORY	VOLUME PRODUCED	DISPOSITIONS				ENDING INVENTORY
		BTU			TRANSPORTED	USED ON SITE	FLARED/VENTED	OTHER	
05980	OIL			177609	177609	0			
	GAS			72101	66216	5885			
11174	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
TOTALS				249710	243825	5885			

COMMENTS:

*PLEASE NOTE ADDRESS change. Mobil ~~also~~ PRODUCTION REPORTS
will be compiled and sent from the Cortez, Co. office
IN THE FUTURE.*

I hereby certify that this report is true and complete to the best of my knowledge.

Name and Signature:

Twel B Sheffield

Date:

9/5/93

Telephone Number:

*303.565.2212
244.658.2528*

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)		5. LEASE DESIGNATION & SERIAL NO. 6. IF INDIAN, ALLOTTEE OR TRIBE NAME NAVAJO TRIBAL	
1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT AGREEMENT NAME RATHERFORD UNIT	
2. NAME OF OPERATOR MOBIL OIL CORPORATION		8. FARM OR LEASE NAME	
3. ADDRESS OF OPERATOR P. O. BOX 633 MIDLAND, TX 79702		9. WELL NO.	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface At proposed prod. zone		10. FIELD AND POOL OR WILDCAT GREATER ANETH 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
14. API NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY SAN JUAN	13. STATE UTAH
16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data			
NOTICE OF INTENTION TO: TEST WATER SHUT-OFF <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> MULTIPLE COMPLETE <input type="checkbox"/> SHOOT OR ACIDIZE <input type="checkbox"/> ABANDON <input type="checkbox"/> REPAIR WELL <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> (Other) <input type="checkbox"/>		SUBSEQUENT REPORT OF: WATER SHUT-OFF <input type="checkbox"/> REPAIRING WELL <input type="checkbox"/> FRACTURE TREATMENT <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> SHOOTING OR ACIDIZING <input type="checkbox"/> ABANDONMENT* <input type="checkbox"/> (Other) <u>CHANGE OF OPERATOR</u> <input type="checkbox"/> (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	
APPROX. DATE WORK WILL START _____		DATE OF COMPLETION _____	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

* Must be accompanied by a cement verification report.

AS OF JULY1, 1993, MOBIL OIL CORPORATION IS THE OPERATOR OF THE RATHERFORD UNIT.
 ATTACHED ARE THE INDIVIDUAL WELLS.

18. I hereby certify that the foregoing is true and correct

SIGNED

Shirley Dodd

TITLE

ENV. & REG TECHNICIAN

DATE

9-8-93

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

See Instructions On Reverse Side

Sept 29, 1993

TO: Lisha Cordova - Utah Mining
Oil & Gas

FROM: Janice Easley
BLM Farmington, NM
505 599-6355

Here is copy of Rutherford Unit
Successor Operator,

4 pages including this one.

246: Ratherford Unit (GC)

RECEIVED
BLM

SEP 27 AM 11:44

070 FARMINGTON, NM

Navajo Area Office
P. O. Box 1060
Gallup, New Mexico 87305-1060

ARES/543

JUL 26 1993

Mr. G. D. Cox
Mobil Exploration and
Producing North America, Inc.
P. O. Box 633
Midland, Texas 79702

Dear Mr. Cox:

Enclosed for your information and use is the approved Designation of Operator between the Phillips Petroleum Company and Mobil Exploration and Producing North America, Inc. for the Ratherford Unit.

Please note that all other concerned parties will be furnished their copy of the approved document.

Sincerely,

[Handwritten Signature]

ACTING Area Director

Enclosure

cc: Bureau of Land Management, Farmington District Office w/enc.
TNN, Director, Minerals Department w/enc.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF INDIAN AFFAIRS

DESIGNATION OF OPERATOR

RECEIVED
BLM

Phillips Petroleum Company is, on the records of the Bureau of Indian Affairs, operator of the Ratherford Unit, 52 JUN 27 1993 11:44

AREA OFFICE: Window Rock, Arizona
LEASE NO: Attached hereto as Exhibit "A"

070 FARMINGTON, NM

and, pursuant to the terms of the Ratherford Unit Agreement, is resigning as Unit Operator effective July 1, 1993, and hereby designates

NAME: Mobil Exploration and Producing North America Inc., duly elected pursuant to the terms of the Ratherford Unit Agreement,

ADDRESS: P. O. Box 633, Midland, Texas 79702
Attn: G. D. Cox

as Operator and local agent, with full authority to act on behalf of the Ratherford Unit lessees in complying with the terms of all leases and regulations applicable thereto and on whom the authorized officer may serve written or oral instructions in securing compliance with the Operating Regulations (43 CFR 3160 and 25 CFR 211 and 212) with respect to (described acreage to which this designation is applicable):

Attached hereto as Exhibit "A"

Bond coverage under 25 CFR 211, 212 or 225 for lease activities conducted by the above named designated operator is under Bond Number 05202782 (attach copy). Evidence of bonding is required prior to the commencement of operations.

It is understood that this designation of operator does not relieve any lessee of responsibility for compliance with the terms of the leases and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the leases.

In case of default on the part of the designated operator, the lessees will make full and prompt compliance with all regulations, lease terms, stipulations, or orders of the Secretary of the Interior or his representative.

Attached is the appropriate documentation relevant to this document.

The designated operator agrees to promptly notify the authorized officer of any change in the operatorship of said Ratherford Unit.

Phillips Petroleum Company

June 17, 1993

By: M. B. [Signature]
Attorney-in-Fact

Mobil Exploration and Producing
North America Inc.

June 11, 1993

By: B. D. Martiny
Attorney-in-Fact B.D. MARTINY

[Signature] ACTING AREA DIRECTOR
APPROVED BY TITLE DATE
7/9/93

APPROVED PURSUANT, TO SECRETARIAL REDELEGATION ORDER 209 DM 8 AND 230 DM 3.

This form does not constitute an information collection as defined by 44 U.S.C. 3502 and therefore does not require OMB approval.

EXHIBIT "A"

ATTACHED TO AND MADE A PART OF DESIGNATION OF SUCCESSOR OPERATOR, RATHERFORD UNIT

EXHIBIT "C"

Revised as of September 29, 1992
SCHEDULE OF TRACT PERCENTAGE PARTICIPATION

<u>Tract Number</u>	<u>Description of Land</u>	<u>Serial Number and Effective Date of Lease</u>	<u>Tract Percentage Participation</u>
1	S/2 Sec. 1, E/2 SE/4 Sec. 2, E/4 Sec. 11, and all of Sec. 12, T-41-S, R-23-E, S.L.M., San Juan County, Utah	14-20-603-246-A Oct. 5, 1953	11.0652565
2	SE/4 and W/2 SW/4 Sec. 5, the irregular SW/4 Sec. 6, and all of Sec. 7 and 8, T-41-S, R-24-E, San Juan County, Utah	14-20-603-368 Oct. 26, 1953	14.4159942
3	SW/4 of Sec. 4, T-41-S, R-24-E, San Juan County, Utah	14-20-603-5446 Sept. 1, 1959	.5763826
4	SE/4 Sec. 4, and NE/4 Sec. 9, T-41-S, R-24-E, San Juan County, Utah	14-20-603-4035 March 3, 1958	1.2587779
5	SW/4 of Sec. 3, T-41-S, R-24-E, S.L.M., San Juan County, Utah	14-20-603-5445 Sept. 3, 1959	.4667669
6	NW/4 of Sec. 9, T-41-S, R-24-E, S.L.M., San Juan County, Utah	14-20-603-5045 Feb. 4, 1959	1.0187043
7	NW/4, W/2 NE/4, and SW/4 Sec. 10, SE/4 Sec. 9, T-41-S, R-24-E, San Juan County, Utah	14-20-603-4043 Feb. 18, 1958	3.5097575
8	SW/4 Sec. 9, T-41-S, R-24-E, S.L.M., San Juan County, Utah	14-20-603-5046 Feb. 4, 1959	1.1141679
9	SE/4 Sec. 10 and S/2 SW/4 Sec. 11 T-41-S, R-24-E, San Juan County, Utah	14-20-603-4037 Feb. 14, 1958	2.6186804
10	All of Sec. 13, E/2 Sec. 14, and E/2 SE/4 and N/2 Sec. 24, T-41-S, R-23-E, S.L.M., San Juan County, Utah	14-20-603-247-A Oct. 5, 1953	10.3108861
11	Sections 17, 18, 19 and 20, T-41-S, R-24-E, San Juan County Utah	14-20-603-353 Oct. 27, 1953	27.3389265
12	Sections 15, 16, 21, and NW/4, and W/2 SW/4 Sec. 22, T-41-S, R-24-E, San Juan County, Utah	14-20-603-355 Oct. 27, 1953	14.2819339
13	W/2 Section 14, T-41-S, R-24-E, San Juan County, Utah	14-20-603-370 Oct. 26, 1953	1.8500847
14	N/2 and SE/4, and E/2 SW/4 Sec. 29, NE/4 and E/2 SE/4 and E/2 W/2 irregular Sec. 30, and E/2 NE/4 Sec. 32, T-41-S, R-24-E, San Juan County, Utah	14-20-603-407 Dec. 10, 1953	6.9924969
15	NW/4 Sec. 28, T-41-S, R24-E San Juan County, Utah	14-20-603-409 Dec. 10, 1953	.9416393
16	SE/4 Sec. 3, T-41-S, R-24-E San Juan County, Utah	14-20-0603-6504 July 11, 1961	.5750254
17	NE/4 Sec. 3, T-41-S, R-24-E San Juan County, Utah	14-20-0603-6505 July 11, 1961	.5449292
18	NW/4 Sec. 3, T-41-S, R-24-E San Juan County, Utah	14-20-0603-6506 July 11, 1961	.5482788
19	NE/4 Sec. 4, T-41-S, R24-E San Juan County, Utah	14-20-0603-7171 June 11, 1962	.4720628
20	E/2 NW/4 Sec. 4, T-41-S, R-24-E San Juan County, Utah	14-20-0603-7172 June 11, 1962	.0992482

100% Indian Lands

TOTAL 12,909.74

100.0000000

Division of Oil, Gas and Mining
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

☐ Well File _____
(Location) Sec____Twp____Rng____
(API No.) _____

☐ Suspense
(Return Date) _____
(To - Initials) _____

☒ Other
OPERATOR CHANGE

1. Date of Phone Call: 10-6-93 : Time: 9:30

2. DOGM Employee (name) L. CORDOVA (Initiated Call ☒
Talked to:

Name GLEN COX (Initiated Call ☐ - Phone No. (915) 688-2114
of (Company/Organization) MOBIL

3. Topic of Conversation: OPERATOR CHANGE FROM PHILLIPS TO MOBIL "RATHERFORD UNIT".
(NEED TO CONFIRM HOW OPERATOR WANTS THE WELLS SET UP - MEPNA AS PER BIA APPROVAL
OR MOBIL OIL CORPORATION AS PER SUNDRY DATED 9-8-93?)

4. Highlights of Conversation: _____
MR. COX CONFIRMED THAT THE WELLS SHOULD BE SET UNDER ACCOUNT N7370/MEPNA AS
PER BIA APPROVAL, ALSO CONFIRMED THAT PRODUCTION & DISPOSITION REPORTS WILL NOW
BE HANDLED OUT OF THEIR CORTEZ OFFICE RATHER THAN DALLAS.

MEPNA-

PO DRAWER G

CORTEZ, CO 81321

(303) 565-2212

*ADDRESS CHANGE AFFECTS ALL WELLS CURRENTLY OPERATED BY MEPNA, CURRENTLY
REPORTED OUT OF DALLAS (MCELMO CREEK).

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1	REC/417-93
2	DES/58-4118
3	VLC
4	RJH
5	DE
6	RE

Attach all documentation received by the division regarding this change.
 Initial each listed item when completed. Write N/A if item is not applicable.

- ☒ Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator ☐ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 7-1-93)

TO (new operator)	<u>M E P N A</u>	FROM (former operator)	<u>PHILLIPS PETROLEUM COMPANY</u>
(address)	<u>PO DRAWER G</u>	(address)	<u>5525 HWY 64 NBU 3004</u>
	<u>CORTEZ, CO 81321</u>		<u>FARMINGTON, NM 87401</u>
	<u>GLEN COX (915) 688-2114</u>		<u>PAT KONKEL</u>
	phone <u>(303) 565-2212</u>		phone <u>(505) 599-3452</u>
	account no. <u>N7370</u>		account no. <u>N0772(A)</u>

Well(s) (attach additional page if needed):

***RATHERFORD UNIT (NAVAJO)**

Name: **SEE ATTACHED**	API: <u>43037-31167</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- Sec 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Reg. 8-20-93) (6/93 Prod. Rpt. 8-16-93)
- Sec 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Reg. 8-31-93) (Rec'd 9-14-93)
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) ____ If yes, show company file number: _____.
- Sec 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
- Sec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (O&G wells 10-6-93) (Wiw's 10-26-93)
- Sec 6. Cardex file has been updated for each well listed above. (O&G wells 10-6-93) (Wiw's 10-26-93)
- Sec 7. Well file labels have been updated for each well listed above. (O&G wells 10-6-93) (Wiw's 10-26-93)
- Sec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (10-6-93)
- Sec 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- Lee 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

- Lee 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- N/A 2. A copy of this form has been placed in the new and former operators' bond files.
3. The former operator has requested a release of liability from their bond (yes/no) . Today's date 19 . If yes, division response was made by letter dated 19 .

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated 19 , of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- N/A 2. Copies of documents have been sent to State Lands for changes involving State leases.

FILMING

- ✓ 1. All attachments to this form have been microfilmed. Date: 11-17 1993.

FILING

- Lee 1. Copies of all attachments to this form have been filed in each well file.
- Lee 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

931006 BIA/Bmi Approved 7-9-93.

WELL #	API#	LEASE #	SEC., T, R	LOCATION OF WELL
✓ 01W-13	43-037-15838	14-20-603-246A	SEC. 1, T41S, R23E	NW/SW 1980 FSL; 660 FWL
✓ 01-14	43-037-31162	14-20-603-246A	SEC. 1, T41S, R23E	SW/SW 660 FSL; 660 FWL
✓ 01W-24	43-037-15839	14-20-603-246	SEC. 1, T41S, R23E	SE/SW 651 FSL; 3300 FEL
✓ 01-34	43-037-16385	14-20-603-246A	SEC. 1, T41S, R23E	SW/SE 4147 FNL; 1980 FEL
✓ 01W-44	43-037-15840	14-20-603-246A	SEC. 1, T41S, R23E	660 FSL; 661 FEL
✓ 02W-44	43-037-16386	14-20-603-246A	SEC. 2, T41S, R23E	SE/SE 810 FNL; 5110' FWL
✓ 03-14	43-037-15124	14-20-603-5445	SEC. 3, T41S, R24E	660 FSL; 660 FEL
✓ 03-12	43-037-15620	14-20-603-6506	SEC. 3, T41S, R24E	SW/NW 2140 FNL; 660 FWL
✓ 03W-42	43-037-16388	14-20-603-6505	SEC. 3, T41S, R24E	SW/NE 1980 FNL; 660 FEL
✓ 03-44	43-037-15031	14-20-603-6504	SEC. 3, T41S, R24E	520 FSL; 820 FEL
✓ 04-14	43-037-16163	14-20-603-5446	SEC. 4, T41S, R24E	500 FSL; 600 FEL
✓ 04-34	43-037-16164	14-20-603-4035	SEC. 4, T41S, R24E	660 FSL; 1980 FEL
✓ 05-34	43-037-15983	14-20-603-368	SEC. 5, T41S, R24E	SW/SE 612 FSL; 1990 FEL
✓ 05W-43	43-037-16392	14-20-603-368	SEC. 5, T41S, R24E	1400 FSL; 990 FEL
✓ 06W-14	43-037-15984	14-20-603-368	SEC. 6, T41S, R24E	SW/SW 660; FSL; 660 FWL
✓ 06W-23	43-037-16393	14-20-603-368	SEC. 6, T41S, R24E	1830 FSL; 1895 FWL
✓ 07-11	43-037-31163	14-20-603-368	SEC. 7, T41S, R24E	NW/NW 660 FNL; 710 FWL
✓ 07W-12	43-037-15985	14-20-603-368	SEC. 7, T41S, R24E	SW/NW 2140 FNL; 585 FWL
✓ 07-13	43-037-31164	14-20-603-368	SEC. 7, T41S, R24E	NW/SW 2110 FSL; 740 FWL
✓ 07W-14	43-037-15986	14-20-603-368	SEC. 7, T41S, R24E	SW/SW 1065 FSL; 660 FWL
✓ 07W-21	43-037-16394	14-20-603-368	SEC. 7, T41S, R24E	710 FNL; 1820 FWL
✓ 07-22	43-037-31165	14-20-603-368	SEC. 7, T41S, R24E	SE/NW 1980 FNL; 1980 FWL
✓ 07W-23	43-037-15987	14-20-603-368	SEC. 7, T41S, R24E	NE/SW 1980 FSL 1980 FWL
✓ 07-24	43-037-31166	14-20-603-368	SEC. 7, T41S, R24E	SE/SW 880 FSL; 2414 FWL
✓ 07W-32	43-037-15988	14-20-603-368	SEC. 7, T41S, R23E	SW/NE 1980 FNL; 1980 FEL
* 07-33	43-037-31167	14-20-603-368	SEC. 7, T41S, R24E	NW/SE 2105 FSL; 1876 FEL
✓ 07W-34	43-037-15989	14-20-603-368	SEC. 7, T41S, R24E	710 FSL; 2003 FEL
✓ 07W-41	43-037-15990	14-20-603-368	SEC. 7, T41S, R24E	NE/NE 585 FNL; 770 FEL
✓ 07W-43	43-037-16395	14-20-603-368	SEC. 7, T41S, R24E	2110 FSL; 660 FEL
✓ 07-44	43-037-31189	14-20-603-368	SEC. 7, T41S, R24E	SE/SE 737 FSL; 555 FEL
✓ 08-12	43-037-15991	14-20-603-368	SEC. 8, T41S, R24E	SW/NW 1909 FNL; 520 FWL
✓ 08W-14	43-037-15992	14-20-603-368	SEC. 8, T41S, R24E	745 FSL; 575 FWL
✓ 08-21	43-037-15993	14-20-603-368	SEC. 8, T41S, R24E	616 FNL; 1911 FWL
✓ 08-23	43-037-15994	14-20-603-368	SEC. 8, T41S, R24E	NE/NW 1920 FSL; 2055 FWL
✓ 08-32	43-037-15995	14-20-603-368	SEC. 8, T41S, R24E	SW/NE 1980 FNL; 1980 FEL
✓ 08-34	43-037-15996	14-20-603-368	SEC. 8, T41S, R24E	SW/SE 660 FSL; 1980 FEL
✓ 08-41	43-037-15997	14-20-603-368	SEC. 8, T41S, R24E	NE/NE 660 FNL; 660 FEL
✓ 08W-43	43-037-16396	14-20-603-368	SEC. 8, T41S, R24E	1980 FSL; 660 FEL
✓ 09W-23	43-037-16398	14-20-603-5046	SEC. 9, T41S, R24E	NW/SE 1980 FSL; 1980 FWL
✓ 09-12	43-037-15126	14-20-603-5045	SEC. 9, T41S, R24E	1865 FNL; 780 FWL
✓ 09W-21	43-037-16397	14-20-603-5045	SEC. 9, T41S, R24E	660 FNL; 2080 FWL
✓ 09-14A	43-037-15127	14-20-603-5046	SEC. 9, T41S, R24E	710 FSL; 660 FWL
✓ 09-32	43-037-16165	14-20-603-4035	SEC. 9, T41S, R24E	1980 FNL; 1980 FEL
✓ 09W-41	43-037-16399	14-20-603-4035	SEC. 9, T41S, R24E	660 FNL; 660 FEL
✓ 09W-43	43-037-16400	14-20-603-4043	SEC. 9, T41S, R24E	1980 FSL; 660 FEL
✓ 10W-23	43-037-16402	14-20-603-4043	SEC. 10, T41S, R24E	1980 FSL; 1980 FWL
✓ 10-14	43-037-15713	14-20-603-4043	SEC. 10, T41S, R24E	510 FSL; 710 FWL
✓ 10-12	43-037-15712	14-20-603-4043	SEC. 10, T41S, R24E	660 FWL; 1980 FNL
✓ 10W-21	43-037-16401	14-20-603-4043	SEC. 10, T41S, R24E	810 FNL; 1980 FWL
✓ 10-34	43-037-16166	14-20-603-4037	SEC. 10, T41S, R24E	620 FSL; 1860 FEL
✓ 10W-43	43-037-16403	14-20-603-4037	SEC. 10, T41S, R24E	1980 FSL; 550 FEL
✓ 11-41	43-037-31544	14-20-603-246A	SEC. 11, T41S, R23E	NE/NE 860 FNL; 350 FEL
✓ 11-42W	43-037-15841	14-20-603-246	SEC. 11, T41S, R23E	3290 FNL; 4617 FEL
✓ 11-43	43-037-31622	14-20-603-246A	SEC. 11, T41S, R23E	1980 FSL; 660 FEL
✓ 11W-44	43-037-15842	14-20-603-246A	SEC. 11, T41S, R23E	SE/SE 660 FSL; 558 FEL
✓ 12W-11	43-037-15843	14-20-603-246A	SEC. 12, T41S, R23E	NW/NW 678 FNL; 4620 FEL
✓ 12-12	43-037-31190	14-20-603-246A	SEC. 12, T41S, R23E	SW/NW 1850 FNL; 660 FWL
✓ 12W-13	43-037-16404	14-20-603-246A	SEC. 12, T41S, R23E	1980 FSL; 4620 FEL
✓ 12-14	43-037-15844	NA	SEC. 12, T41S, R23E	660 FNL; 4622 FWL
✓ 12-21	43-037-31201	14-20-603-246A	SEC. 12, T41S, R23E	NE/NW 660 FNL; 1980 FWL
✓ 12W-22	43-037-15845	14-20-603-246	SEC. 12, T41S, R23E	NA
✓ 12-23	43-037-15846	14-20-603-246A	SEC. 12, T41S, R23E	1958 FNL; 3300 FWL
✓ 12W-24	43-037-31151	14-20-603-246A	SEC. 12, T41S, R23E	775 FSL; 1980
✓ 12-32	43-037-31203	14-20-603-246A	SEC. 12, T41S, R23E	SW/NE 1820 FNL; 1820 FEL
✓ 12W-33	43-037-15848	14-20-603-246A	SEC. 12, T41S, R23E	NW/SE 1957 FSL; 1981 FEL
✓ 12-34	43-037-31126	14-20-603-246A	SEC. 12, T41S, R23E	SW/SE 675 FSL; 1905 FEL
✓ 12-41	43-037-15849	14-20-603-246A	SEC. 12, T41S, R23E	656 FNL; 660 FEL
✓ 12W-42	43-037-15850	14-20-603-246A	SEC. 12, T41S, R23E	3275 FSL; 662 FEL

PAID RECEIVED

SEP 15 1993

DIVISION OF
PAID OIL, GAS & MINING

PAID

PAID
PAID

14-20-603-246

SE NW 1920 FNL 2080 FWL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

MOBIL EXPLORATION & PRODUCING US, AS AGENT FOR MEPNA

3. Address and Telephone No.

P. O. BOX 633, MIDLAND, TX 79702

(915) 688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2105' FSL, 1876' FEL; SEC. 7, T41S, R24E

5. Lease Designation and Serial No.

14-20-603-368

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

RATHERFORD UNIT

8. Well Name and No.

RATHERFORD UNIT 7-33

9. API Well No.

43-037-31167

10. Field and Pool, or exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN,

UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other WORKOVER
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

03-03-94 MIRU. NU BOP. RIH W/BIT & SCRAPER ON 130 JTS.

03-04-94 TAG CSG. COLLAPSE AT 5772'. POOH W/TBG. RIH W/CIBP AT 5470'. PRESS TEST CSG. TO 1000 PSI - HELD OK F/30 MINS. ND BOP. FILL CSG W/FLUID. RDMO.

14. I hereby certify that the foregoing is true and correct

Signed

D. Davis for Shirley Todd

Title

ENV. & REG. TECHNICIAN

Date

04/01/94

(This space for Federal or State office use)

Approved by

Title

Date

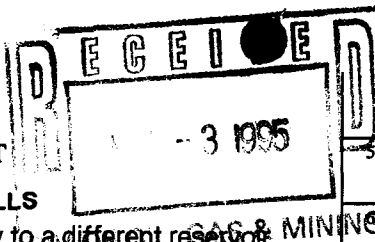
For credit

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

* See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator Mobil Exploration & Producing U.S. Inc.
as Agent for Mobil Producing TX & NM Inc.

3. Address and Telephone No.

P.O. Box 633, Midland, TX 79702 (915) 688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2105' FSL, 1876' FEL
SEC. 7, T41S, R24E

5. Lease Designation and Serial No.

14-20-603-368

If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

RATHERFOR UNIT

8. Well Name and No.

RATHERFORD 7-33

9. API Well No.

43-037-31167

10. Field and Pool, or exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other TA EXTENSION
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

MOBIL IS REQUESTING AN EXTENSION FOR TA'D STATUS. PLANS ARE TO RETURN THIS WELL TO PRODUCTION IN 1995.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

14. I hereby certify that the foregoing is true and correct

Signed Shirley Robertson

Title SHIRLEY ROBERTSON Env. & Reg. Tech. Date 2-27-95

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
 355 West North Temple, 3 Third, Suite 350, Salt Lake City, UT 84180-1203

Page 20 of 22

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

C/O MOBIL OIL CORP
 M E P N A
 PO DRAWER G
 CORTEZ CO 81321

UTAH ACCOUNT NUMBER: N7370REPORT PERIOD (MONTH/YEAR): 6 / 95AMENDED REPORT ☐ (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
RATHERFORD UNIT #13-43								
4303731131	06280 41S 23E 13		DSCR					
RATHERFORD UNIT #24-41								
4303731132	06280 41S 23E 24		DSCR					
RATHERFORD UNIT 17-13								
4303731133	06280 41S 24E 17		DSCR					
RATHERFORD UNIT #17-33								
4303731134	06280 41S 24E 17		DSCR					
RATHERFORD UNIT #18-33								
4303731135	06280 41S 24E 18		DSCR					
RATHERFORD UNIT #1-14								
4303731162	06280 41S 23E 1		DSCR					
RATHERFORD UNIT #7-11								
4303731163	06280 41S 24E 7		DSCR					
RATHERFORD UNIT #7-13								
4303731164	06280 41S 24E 7		DSCR					
RATHERFORD UNIT #7-22								
4303731165	06280 41S 24E 7		DSCR					
RATHERFORD UNIT #7-24								
4303731166	06280 41S 24E 7		DSCR					
RATHERFORD UNIT 7-33								
4303731167	06280 41S 24E 7		IS-DC					
RATHERFORD UNIT #16-13								
4303731168	06280 41S 24E 16		DSCR					
RATHERFORD UNIT #17-11								
4303731169	06280 41S 24E 17		DSCR					
TOTALS								

COMMENTS:

I certify that this report is true and complete to the best of my knowledge.

Date: _____

Name and Signature: _____

Telephone Number: _____

PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

☐ Well File _____

☐ Suspense _____

☒ Other _____

(Location) Sec _____ Twp _____ Rng _____

(Return Date) _____

OPER NM CHG _____

(API No.) _____

(To - Initials) _____

1. Date of Phone Call: 8-3-95 Time: _____

2. DOGM Employee (name) L. CORDOVA (Initiated Call ☐)
Talked to:

Name R. J. FIRTH (Initiated Call ☒) - Phone No. () _____

of (Company/Organization) _____

3. Topic of Conversation: M E P N A / N7370

4. Highlights of Conversation: _____

OPERATOR NAME IS BEING CHANGED FROM M E P N A (MOBIL EXPLORATION AND PRODUCING

NORTH AMERICA INC) TO MOBIL EXPLOR & PROD. THE NAME CHANGE IS BEING DONE AT

THIS TIME TO ALLEVIATE CONFUSION, BOTH IN HOUSE AND AMONGST THE GENERAL PUBLIC.

*SUPERIOR OIL COMPANY MERGED INTO M E P N A 4-24-86 (SEE ATTACHED).

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing

1- <u>LWC</u>	7- <u>PL</u>
2- <u>LWP</u>	8- <u>SJ</u>
3- <u>DTB</u>	9- <u>FILE</u>
4- <u>VLC</u>	
5- <u>RJF</u>	
6- <u>LWP</u>	

Attach all documentation received by the division regarding this change.
 Initial each listed item when completed. Write N/A if item is not applicable.

- ☐ Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator ☒ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 8-2-95)

TO (new operator) **MOBIL EXPLOR & PROD**
 (address) **C/O MOBIL OIL CORP**
PO DRAWER G
CORTEZ CO 81321
 phone (303) **564-5212**
 account no. **N7370**

FROM (former operator) **M E P N A**
 (address) **C/O MOBIL OIL CORP**
PO DRAWER G
CORTEZ CO 81321
 phone (303) **564-5212**
 account no. **N7370**

Well(s) (attach additional page if needed):

Name: ** SEE ATTACHED **	API: <u>037-31167</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- N/A 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form).
- N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) _____ If yes, show company file number: _____.
- N/A 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
- Yes 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (8-3-95)
- LWP 6. Cardex file has been updated for each well listed above. 8-21-95
- LWP 7. Well file labels have been updated for each well listed above. 9-28-95
- Yes 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (8-3-95)
- Yes 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- Lee 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ____ (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

** No Fee Lease Wells at this time!*

- N/A Lee 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- ____ 2. A copy of this form has been placed in the new and former operators' bond files.
- ____ 3. The former operator has requested a release of liability from their bond (yes/no) ____.
Today's date _____ 19____. If yes, division response was made by letter dated _____ 19____.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated _____ 19____, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- N/A 2. Copies of documents have been sent to State Lands for changes involving State leases.

FILMING

- ✓ 1. All attachments to this form have been microfilmed. Date: October 6 19 95.

FILING

- ____ 1. Copies of all attachments to this form have been filed in each well file.
- ____ 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

950803 WIC F5/Not necessary!

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator Mobil Exploration & Producing U.S. Inc.
as Agent for Mobil Producing TX & NM Inc.

3. Address and Telephone No.

P.O. Box 633, Midland, TX 79702 915-688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2105' FSL, 1876' FEL
SEC. 7, T41S, R24E

FORM APPROVED

Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

14-20-603-368

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

RATHERFORD UNIT

8. Well Name and No.

7-33

9. API Well No.

43-037-31167

10. Field and Pool, or exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

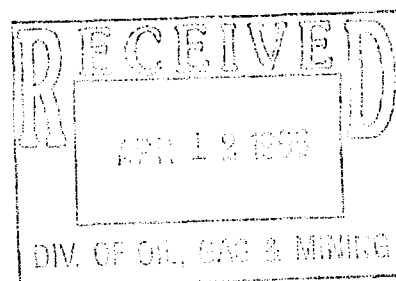
TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other TA EXTENSION
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

MOBIL IS REQUESTING AN EXTENSION FOR TA'D STATUS. WELL IS BEING EVALUATED FOR CO2 EXPANSION.



14. I hereby certify that the foregoing is true and correct

Signed

Shirley Robertson

Title ENV. & REG. TECHNICIAN

Date 4-9-96

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Accepted by the

Utah Division of

Oil, Gas and Mining

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FOR RECORD ONLY

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DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator Mobil Exploration & Producing U.S. Inc.
as Agent for Mobil Producing TX & NM Inc.

3. Address and Telephone No.

P.O. Box 633, Midland, TX 79702 915-688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2105' FSL & 1876' FEL
SEC.7, T41S, R24E

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

5. Lease Designation and Serial No.

14-20-603-368

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

RATHERFORD UNIT

8. Well Name and No.

RATHERFORD 7-33

9. API Well No.

43-037-31167

10. Field and Pool, or exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN UT

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

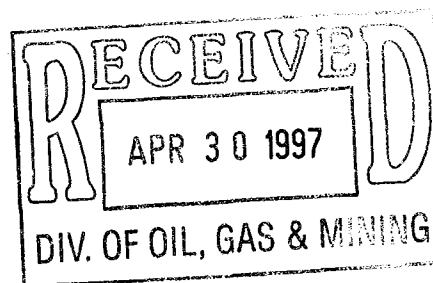
TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other _____
- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

MOBIL REQUEST TA'D WELL EXTENSION AS ENGINEER PLANS TO PRODUCE IN ZONE 2.



14. I hereby certify that the foregoing is true and correct

Signed Shuley Houchins

Title ENV. & REG. TECHNICIAN

Date 04-22-97

(This space for Federal or State office use)

Approved by _____

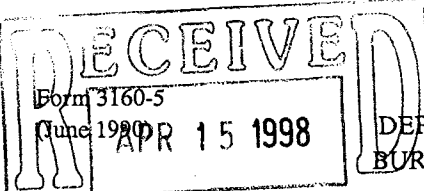
Title _____

Date _____

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* See Instruction on Reverse Side



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

DIV. OF OIL, GAS & MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT - " for such proposals

5. Lease Designation and Serial No.

14-20-603-368

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

RATHERFORD UNIT

8. Well Name and No.

RATHERFORD 7-33

9. API Well No.

43-037-31167

10. Field and Pool, or exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN UT

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator MOBIL PRODUCING TX & NM INC. *

*MOBIL EXPLORATION & PRODUCING US INC. AS AGENT FOR MPTM

3. Address and Telephone No.

P.O. Box 633, Midland TX 79702 (915) 688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEC. 7, T41S, R24E
2105' FSL & 1876' FEL

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- | | |
|--|--|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> Change of Plans |
| <input type="checkbox"/> Recompletion | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Plugging Back | <input type="checkbox"/> Non-Routine Fracturing |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Altering Casing | <input type="checkbox"/> Conversion to Injection |
| <input checked="" type="checkbox"/> Other TA EXTENSION | <input type="checkbox"/> Dispose Water |

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

MOBIL REQUEST CONTINUED TA'D STATUS. WELLBORE BEING HELD FOR CO2 FLOOD & POSSIBLE ZONE 2 PILOT WELL.

14. I hereby certify that the foregoing is true and correct

Signed Shirley Houchins for Title SHIRLEY HOUCHINS/ENV & REG TECH Date 4-13-98

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

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* See Instruction on Reverse Side

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator MOBIL PRODUCING TX & NM INC.*

*MOBIL EXPLORATION & PRODUCING US INC. AS AGENT FOR MPTM

3. Address and Telephone No.

P.O. Box 633, Midland TX 79702

(915) 688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEC. 7, T41S, R24E

(NW/SE) 2105' FSL & 1876' FEL

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

5. Lease Designation and Serial No.

14-20-603-368

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

RATHERFORD UNIT

8. Well Name and No.

RATHERFORD

7-33

9. API Well No.

43-037-15988- 31167

10. Field and Pool, or exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN

UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other CASING ASSESSMENT
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

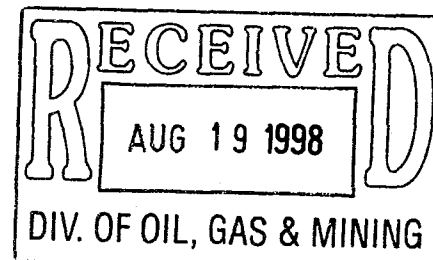
13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

SEE ATTACHED PROCEDURE FOR CASING ASSESSMENT/WITH PLUG & ABANDON PROCEDURE IF NECESSARY.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

Federal Approval of this
Action is Necessary

COPY SENT TO OPERATOR
DATE: 9.1.98
INITIALS: LBR



14. I hereby certify that the foregoing is true and correct

Signed

Shirley Houchins

Title SHIRLEY HOUCHINS/ENV & REG TECH

Date 8-17-98

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

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* See Instruction on Reverse Side

Ratherford Unit #7-33
Casing Assessment Procedure

The objective of this operation is to test the casing integrity of the #7-33.

1. Notify BLM and Navajo EPA 48 hours prior to plugging.
2. MIRU PU. ND wellhead. NU BOP. Pressure test BOPs
3. RIH w/ ws. Tag CIBP @ 5470'. Circ hole clean.
4. Test casing from 5470' to surface to 1000#.

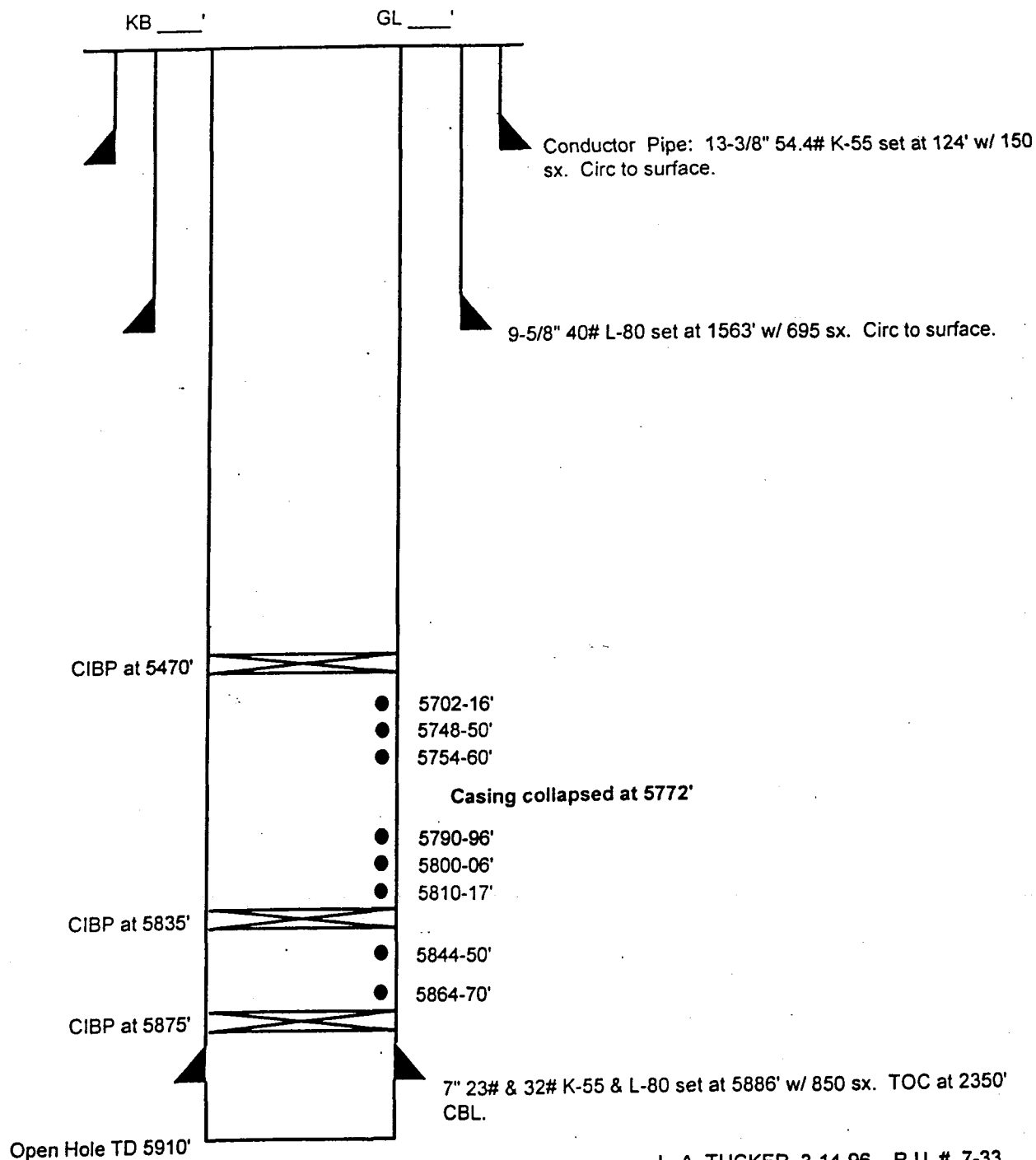
If casing holds, will submit notice to sidetrack well to the 1A/1B zones.

If casing does not hold, plug as follows:

5. RIH w/ ws. Spot ½ bbl cmt on CIBP @ 5470'.
6. Spot cmt plug from 4740'-4940' to cover Hermosa @ 4840'
7. RIH w/ wl. Perforate from 1915'-1920'. Set retainer @ 1870'. Squeeze backside to surface.
8. Top fill casing to retainer @ 1870'.
9. If casing strings above ground, cut off and fill all strings w/ cement.
10. Weld on steel plate. Stamp on required P&A information.
11. ND BOP. NU WH. RDMO.

RATHERFORD UNIT # 7-33
GREATER ANETH FIELD
2105' FSL & 1876' FEL
SEC X-T41S-R24E
SAN JUAN COUNTY, UTAH
API 43-037-31167
PRISM 0042948

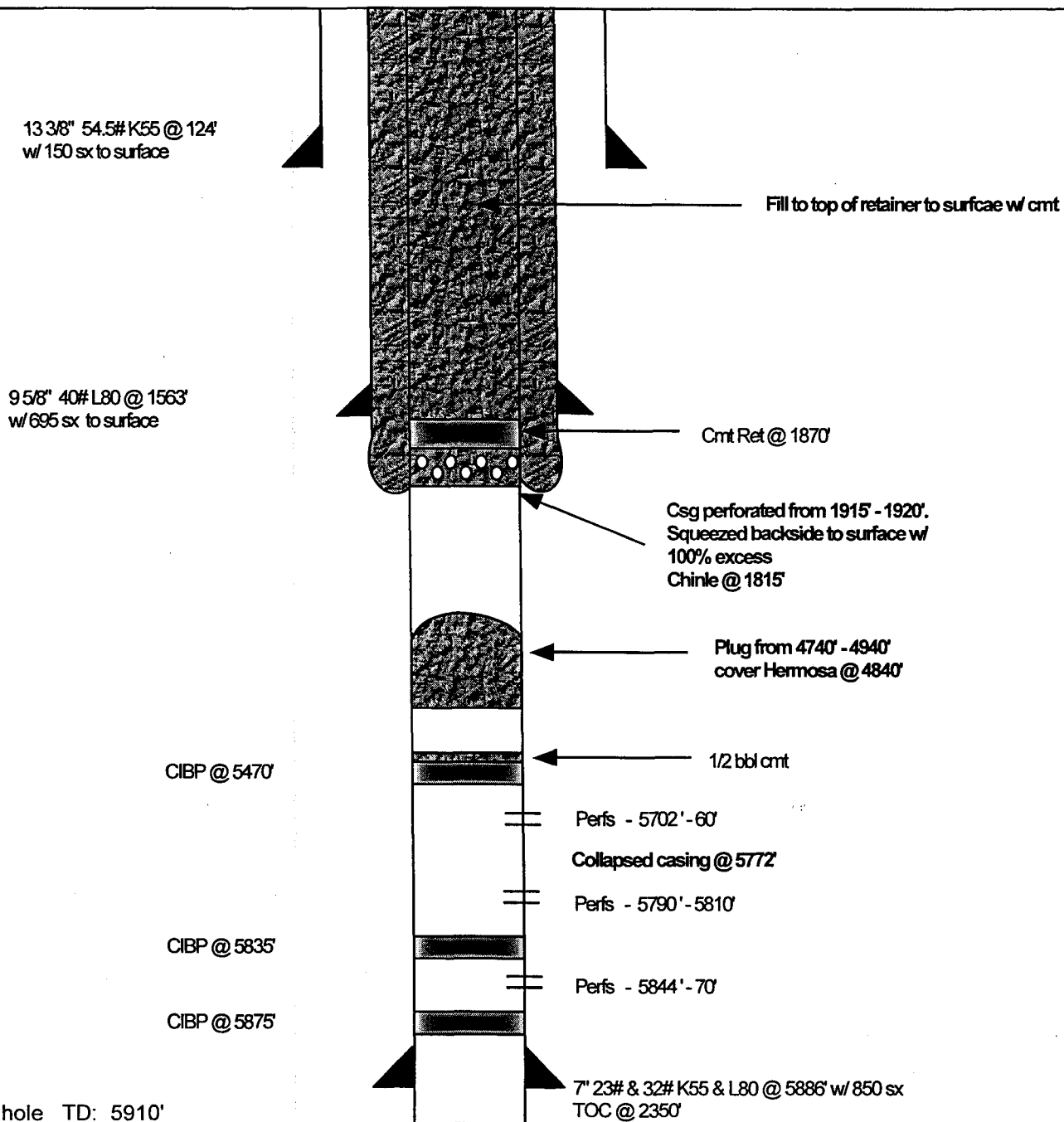
PRODUCER



2105' FSL
1876' FWL
S-7
T41S
R24E
San Juan Co., Utah

Ratherford Unit
7-33
Proposed Wellbore

YPO: 8/17/98



Formation Tops

Chinle	1815'
Dechelley	2943'
Organ Rock	3083'
Hermosa	4840'
U. Ismay	5670'
L. Ismay	5787'
Gothic	5824'
Desert Creek	5836'

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

MOBIL PRODUCING TX & NM INC.*
*MOBIL EXPLORATION & PRODUCING US INC. AS AGENT FOR MPTM

3a. Address

P.O. Box 633, Midland TX 79702

3b. Phone No. (include area code)

(915) 688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEC. 7, T41S, R24E
(NW/SE) 2105' FSL & 1876' FEL

FORM APPROVED

Budget Bureau No. 1004-0135

Expires November 30, 2000

5. Lease Serial No.

14-20-603-368

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA/Agreement, Name and/or No.

RATHERFORD UNIT

8. Well Name and No.

RATHERFORD 7 - 33

9. API Well No.

43-037-31167

10. Field and Pool, or Exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- | | | | |
|---|---|--|---|
| <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other |
| <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

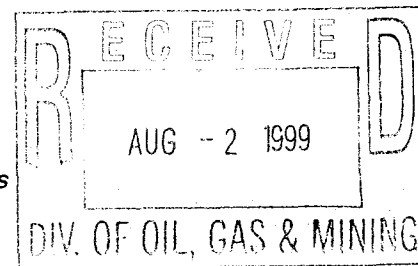
MOBIL REQUEST AN EXTENSION ON THE APPROVED (8-24-98) PROCEDURE FOR CASING ASSESSMENT/WITH PLUG & ABANDON PROCEDURE IF NECESSARY, TO NOVEMBER 1, 1999.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

COPY SENT TO OPERATOR

Date: 8/24/99
Initials: [Signature]

Federal Approval of this
Action is Necessary



14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

[Signature]

Title

SHIRLEY HOUCHINS/ENV & REG TECH

Date

7-28-99

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

MOBIL PRODUCING TX & NM INC.*
*MOBIL EXPLORATION & PRODUCING US INC. AS AGENT FOR MPTM

3a. Address

P.O. Box 633, Midland TX 79702

3b. Phone No. (include area code)

(915) 688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEC. 7, T41S, R24E
(NW/SE) 2105' FSL & 1876' FEL

5. Lease Serial No.

14-20-603-368

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA/Agreement, Name and/or No.

RATHERFORD UNIT

8. Well Name and No.

RATHERFORD 7-33

9. API Well No.

43-037-31167

10. Field and Pool, or Exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☐ Subsequent Report
☒ Final Abandonment Notice

TYPE OF ACTION

- ☐ Acidize ☐ Deepen ☐ Production (Start/Resume) ☐ Water Shut-Off
☐ Alter Casing ☐ Fracture Treat ☐ Reclamation ☐ Well Integrity
☐ Casing Repair ☐ New Construction ☐ Recomplete ☐ Other
☐ Change Plans ☒ Plug and Abandon ☐ Temporarily Abandon
☐ Convert to Injection ☐ Plug Back ☐ Water Disposal

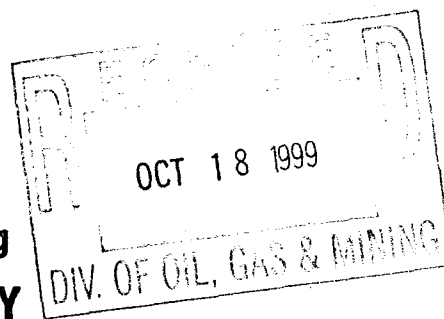
13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

SEE ATTACHED PROCEDURE 10-05-99 -- 10-07-99 WELLBORE PLUGGED & ABANDONED

COPY SENT TO OPERATOR

Date: 10-18-99
Initials: CHD

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY



14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

SHIRLEY HOCHINS

Title

ENVIRONMENTAL & REGULATORY TECHNICIAN

Date 10-15-99

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Federal Approval of this
Action is Necessary

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

ATTACHMENT - FORM 3160-5
RATHERFORD UNIT - WELL #7-33
14-20-603-368
API # 43-037-31167
NAVAJO TRIBAL
SAN JUAN, UTAH

10-05-99 MONTEZUMA WELL SERVICE RIG #15 MOVED IN RIGGED UP. RIG UP PUMP, PIT AND FLOW LINES. SHUT IN PRESSURE AT 12:00 WAS 0 PSI. NIPPLE DOWN PRODUCTION WELL HEAD. NIPPLE UP BOPE. RIG UP RIG FLOOR, TALLY, PICK-UP AND RIH WITH 2.875" OPEN ENDED TBG. TO 5470'. TAG UP ON P.B.T.D.. RIG UP TO PUMP, DISPLACE HOLE WITH FRESH WATER. SHUT IN FOR NIGHT. CALLED NAVAJO E.P.A. AT 11:01 ON OCT.-4-1999. INFORMED OF INTENT TO DIG AND LINE GROUND PIT. TALKED TO MELVINA CLAH, OK. INFORMED B.L.M. (JOSE SANCHEZ) OF INTENT TO P&A WELL AT 14:00 ON OCT. 4-1999. CALLED NAVAJO E.P.A. AT 09:03 ON OCT. 5-1999. INFORMED OF INTENT TO P&A WELL ON OCT. 6-1999. TALKED TO MELVINA CLAH. OK.

10-06-99 SI PRESSURE AT 07:30 WAS 0 PSI. RIG UP AND TEST 7" CSG. TO 500 PSI. LEAKED. DOWELL SET CMT. PLUG IN 7", 23# CSG. FROM 5470' TO 5380' WITH 10.3 SACKS OF CLASS 'B' CMT. + .4% FLUID LOSS DISPERSANT, POH TO 5370', REVERSE CLEAN. POH, LAY DOWN EXCESS 2.875" TBG. TO 4948'. DOWELL SET. CMT PLUG IN 7" 23# CSG. FROM 4948' TO 4650' WITH 60 SXS OF CLASS 'B' CMT. + .4% FLUID LOSS DISPERSANT. POH TO 4638'. REVERSE CLEAN. POH TO 4518'. WAIT ON CMT. 3 HOURS. RIH TO 4700' TAG TOP OF CMT.. OK. POH LAY DOWN EXCESS 2.875" TBG.. FINISH OUT OF HOLE IN STANDS. RIG UP BASIN WIRELINE. BASIN PERF 7" OD CSG. WITH 4 JSPF USING 4" CSG. GUN AT 1916' TO 1920' FOR POH., CLOSE BLIND RAMS. CIRC. DOWN 7" CSG. 9.625' CSG.. OK. MAKE-UP 7" CMT. RETAINER. RIH TO 1850'. SET CMT. RETAINER. SIFN. JOSE SANCHEZ WITH FARMINGTON B.L.M. ON LOCATION.

10-07-99 MIRU DOWELL CMT. UNIT. DOWELL ESTABLISHED INJECTION RATE OF 2.5 BPM AT 200 PSI AND SQUEEZE CSG. PERFS DOWN 2.875" TBG. UNDER RETAINER SET AT 1850' FT. WITH 375 SXS CLASS 'B' CMT. + .4% FLUID LOSS DISPERSANT. TBG. PRESSURE OF 200 PSI. CSG. PRESSURE 0 PSI. REVERSE OUT 3 SXS OF CMT. 365 SXS OF CMT. IN FORMATION. DOWELL SET CMT. PLUG IN 7", 23# CSG. FROM 1850' TO SURFACE WITH 346 SXS OF CLASS 'B' CMT. + .4% FLUID LOSS DISPERSANT. POH, LAY DOWN 2.875" TBG. WHILE SETTING CMT. PLUGS. CMT. TO SURFACE IN 4 STAGES. NIPPLE DOWN BOPE. CAP 7" WITH 5 SXS OF CMT. + .4% FLUID LOSS DISPERSANT. RD PUMP, PIT, FLOW LINES. RD MONTEZUMA WELL SERVICE RIG #15. FINAL P&A REPORT. TURN WELL OVER TO PRODUCTION. CLEAN LOCATION. JOSE SANCHEZ WITH FARMINGTON B.L.M. ON LOCATION.